

**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 THE ENERGY CODE ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
  - 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. SMOKE DETECTORS: PHOTOELECTRIC IN SUPPLY AND/OR RETURN AS CALLED FOR IN SCHEDULE ON SHEET M600.
    - 10. OPERATING CONTROLS: TWO STAGE HEATING AND TWO STAGE COOLING ON UNITS 7-1/2 TONS AND OVER.
    - 11. ROOF CURB.
    - 12. CONTROL WIRING FROM T-STAT TO ROOFTOP UNIT: SHALL BE 18GA / 7 CONDUCTOR, RATED FOR PLENUM APPLICATIONS.
    - 13. 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. INSTALL DUCTS TO TERMINATION IN ROOF MOUNTING FRAMES. TERMINATE DUCTS THROUGH ROOF STRUCTURE.
  - D. CONNECT UNITS TO WIRING SYSTEMS AND TO GROUND.

END OF SECTION 15732

**SECTION 15810 - DUCTS AND ACCESSORIES**

**PART 1 - GENERAL**

- 1.1 SECTION REQUIREMENTS
- A. SUBMITTALS: PRODUCT DATA FOR FIRE AND SMOKE DAMPERS.
  - B. COMPLY WITH NFPA 90A FOR SYSTEMS SERVING SPACES MORE THAN 25,000 CU. FT. IN VOLUME OR BUILDING TYPES II, IV, AND V CONSTRUCTION MORE THAN 3 STORIES IN HEIGHT.
  - C. COMPLY WITH NFPA 90B FOR SYSTEMS SERVING SPACES IN 1 OR 2 FAMILY DWELLINGS OR SERVING SPACES LESS THAN 25,000 CU. FT..
  - D. COMPLY WITH NFPA 96, "VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS," FOR KITCHEN HOOD DUCTS.
  - E. COMPLY WITH UL 181 AND UL 181A FOR DUCTS AND CLOSURES.
  - F. TESTING, ADJUSTING, AND BALANCING AGENCY QUALIFICATIONS: AABC CERTIFIED (TO BE FURNISHED BY OWNER).

**PART 2 - PRODUCTS**

- 2.1 DUCTS
- A. SPIRAL DUCT: SPIRAL LOCK SEAM, WITHOUT INSULATION, G90 GALVANIZED FINISH, ASTM A-653/924
    - 1. BASIS OF DESIGN MANUFACTURERS: LINDAB SPIROSAFE, ALTERNATES TO THE BASIS OF DESIGN MUST BE SUBMITTED FOR REVIEW.
    - 2. FITTINGS: FACTORY PRODUCED STANDING SEAM CONSTRUCTION WITH INTERNAL SEALING. FITTINGS WITH A MAJOR AXIS OF 36" OR SMALLER SHALL BE 20 GAUGE. FITTINGS WITH A MAJOR AXIS OF 37"-48" SHALL BE 18 GAUGE.
  - B. GALVANIZED STEEL SHEET: FORMING STEEL, ASTM A 653/653M, G90 COATING DESIGNATION.
  - C. DUCT LINER: ASTM C 1071, TYPE II, WITH AN AIRSTREAM SURFACE COATED WITH A TEMPERATURE RESISTANT COATING. THICKNESS: 1-1/2 INCH. R-VALUE : 8.
    - 1. ADHESIVE: ASTM C 916, TYPE I.
    - 2. MECHANICAL FASTENERS: GALVANIZED STEEL PIN, LENGTH AS REQUIRED TO PENETRATE LINER PLUS A 1/8 INCH PROJECTION MAXIMUM INTO THE AIRSTREAM.
  - D. JOINT AND SEAM TAPE: COMPLY WITH UL 181A.
  - E. JOINT AND SEAM SEALANT: COMPLY WITH UL 181A.
  - F. RECTANGULAR METAL DUCT FABRICATION: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD" FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS.
- 2.2 ACCESSORIES
- A. VOLUME-CONTROL DAMPERS: FACTORY FABRICATED VOLUME CONTROL DAMPERS, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. SINGLE BLADE AND MULTIPLE OPPOSED BLADE, STANDARD LEAKAGE RATING, AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS.
  - B. FIRE DAMPERS: FACTORY-FABRICATED FIRE DAMPERS, COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES. UL LABELED ACCORDING TO UL 555, "FIRE DAMPERS".
  - C. FLEXIBLE CONNECTORS: FLAME RETARDANT OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS 1.
  - D. FLEXIBLE DUCTS: FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH AN OUTER JACKET ENCLOSING 2 INCH THICK, GLASS FIBER INSULATION, R-VALUE: 6.0, AROUND A CONTINUOUS INNER LINER.

**PART 3 - EXECUTION**

- 3.1 INSTALLATION
- A. DUCT SYSTEM PRESSURE CLASS: CONSTRUCT AND INSTALL EACH DUCT SYSTEM WITH 2 INCH POSITIVE AND NEGATIVE DUCT PRESSURE CLASSIFICATIONS.
  - B. CONCEAL DUCTS FROM VIEW IN FINISHED AND OCCUPIED SPACES. EXCEPT WHERE NOTED AS EXPOSED.
  - C. AVOID PASSING THROUGH ELECTRICAL EQUIPMENT SPACES AND ENCLOSURES.
  - D. SUPPORT AND CONNECT METAL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARD".
  - E. INSTALL DUCT ACCESSORIES ACCORDING TO APPLICABLE PORTIONS OF DETAILS OF CONSTRUCTION AS SHOWN IN SMACNA STANDARDS.
  - F. INSTALL LINER AND/OR INSULATION ON DUCTWORK PER THE MATERIAL SCHEDULE ON SHEET M010.
  - 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 GC IS TO HAVE TRAINED STAFFED AVAILABLE DURING THE BALANCING TO CORRECT ISSUES NOTED BY THE BALANCE AGENT.
  - C. THE BALANCE AGENT IS TO BALANCE AIRFLOW WITHIN DISTRIBUTION SYSTEMS, INCLUDING SUBMAINS, BRANCHES, AND TERMINALS TO INDICATED QUANTITIES +/- 10%. THE HOOD EXHAUST SYSTEM SHALL BE BALANCED TO A TOLERANCE OF: -0+10% AND THE MAKE-UP AIR SYSTEM TO A TOLERANCE OF -10+0%.
  - D. THE BALANCE AGENT IS TO SUPPLY A COPY OF THE BALANCE REPORT TO THE OWNER, ENGINEER AND GENERAL CONTRACTOR FOR REVIEW.

END OF SECTION 15810

**SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES**

**PART 1 - GENERAL**

- 1.1 SECTION REQUIREMENTS
- A. SUBMITTALS: NONE.

**PART 2 - PRODUCTS**

- 2.1 OUTLETS AND INLETS
- A. DIFFUSERS:
    - 1. REFER TO GRILLES, 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 GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
    - 2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
    - 3. MATERIAL: AS SCHEDULED.
    - 4. FINISH: AS SCHEDULED.
    - 5. MOUNTING: COUNTERSUNK SCREW.
  - C. WALL AND CEILING GRILLES:
    - 1. REFER TO GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE FOR EQUIPMENT SCHEDULE
    - 2. MANUFACTURER: AS SCHEDULED (NO SUBSTITUTIONS)
    - 3. MATERIAL: AS SCHEDULED.
    - 4. FINISH: AS SCHEDULED.
    - 5. MOUNTING: COUNTERSUNK SCREW OR LAY IN DEPENDING LOCATION.

**PART 3 - EXECUTION**

- 3.1 INSTALLATION
- A. COORDINATE LOCATION AND INSTALLATION WITH DUCT INSTALLATION AND INSTALLATION OF OTHER CEILING AND WALL MOUNTED ITEMS.
  - B. LOCATE CEILING DIFFUSERS, REGISTERS, AND GRILLES, AS INDICATED ON THE ARCHITECTURAL "REFLECTED CEILING PLANS." UNLESS OTHERWISE INDICATED, LOCATE UNITS IN CENTER OF ACOUSTICAL CEILING PANELS.


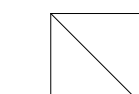
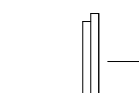
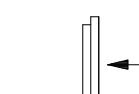
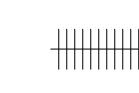
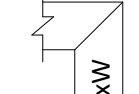
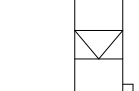
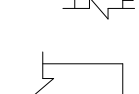
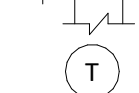

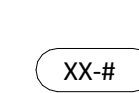
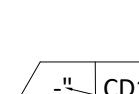
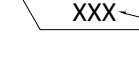


END OF SECTION 15855

HVAC 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 GENERAL 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 GENERAL EXHAUST	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST.	RECT. 16 GA. BLACK IRON W/WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP. (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL.)

**HVAC ABBREVIATIONS**

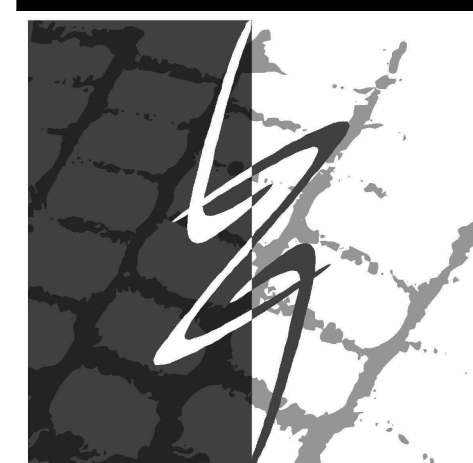
- AFF ABOVE FINISHED FLOOR
- CD CONDENSATE
- CU CONDENSING UNIT
- EF EXHAUST FAN
- EXT'G EXISTING
- HD HOOD
- MUA MAKEUP AIR UNIT
- OPD OPPOSED BLADE DAMPER
- RG RETURN GRILLE
- RTU ROOFTOP UNIT
- SR SUPPLY REGISTER
- VSC VARIABLE SPEED CONTROL
- CO2AS TENANT'S CO2 ALARM SUPPLIER
- GC GENERAL CONTRACTOR
- HES TENANT'S HVAC EQUIPMENT SUPPLIER
- TAB TENANT'S TEST AND BALANCE VENDOR
- TCC TENANT'S CABLING CONTRACTOR
- KES TENANT'S KITCHEN EQUIPMENT SUPPLIER
- HS TENANT'S HOOD SUPPLIER
- TDC TENANT DUCT CLEANER
- TEMS TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
- TENANT'S LIGHT/LAMP SUPPLIER
- TMB TENANT'S MENU BOARD SUPPLIER
- TMS TENANT'S MILLWORK SUPPLIER
- TP TENANT'S PHONE SUPPLIER
- TRS TENANT'S RAILING SUPPLIER
- TSV TENANT'S SIGN VENDOR
- TUV TENANT'S UV SANITIZER SUPPLIER
- WCS TENANT'S WALK-IN COOLER SUPPLIER
- WHS TENANT'S WATER HEATER SUPPLIER

**HVAC SYMBOLS**

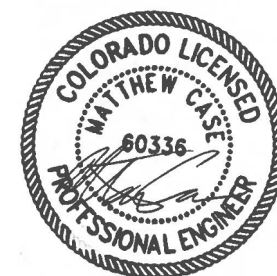
-  CEILING SUPPLY DIFFUSER
-  CEILING RETURN DIFFUSER
-  SUPPLY REGISTER
-  RETURN REGISTER
-  FLEXIBLE DUCT
-  MITERED CORNER WITH TURNING VANES
-  DUCTWORK INTERNAL FREE DIMENSIONS
-  RECTANGULAR TO ROUND TRANSITION
-  GREASE DUCT CLEANOUT
-  MITERED CORNER WITHOUT TURNING VANES
-  GRIDPOINT THERMOSTAT
-  GRIDPOINT ZONE SENSOR MODULE
-  PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
-  EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION.
-  GRILL, REGISTER, OF DIFFUSER TAG: TAG NECK SIZE AIRFLOW (CFM)

**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 G000 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, LEVAT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 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. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING) FURNISHED BY TSV.
- M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.



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07/17/25	DB UPDATES
08/14/25	CITY COMMENTS

Revisions:

Drawn: JW Checked: JV

Project No: CMG 5609

Contents:

**HVAC SPECIFICATIONS**

**M010**



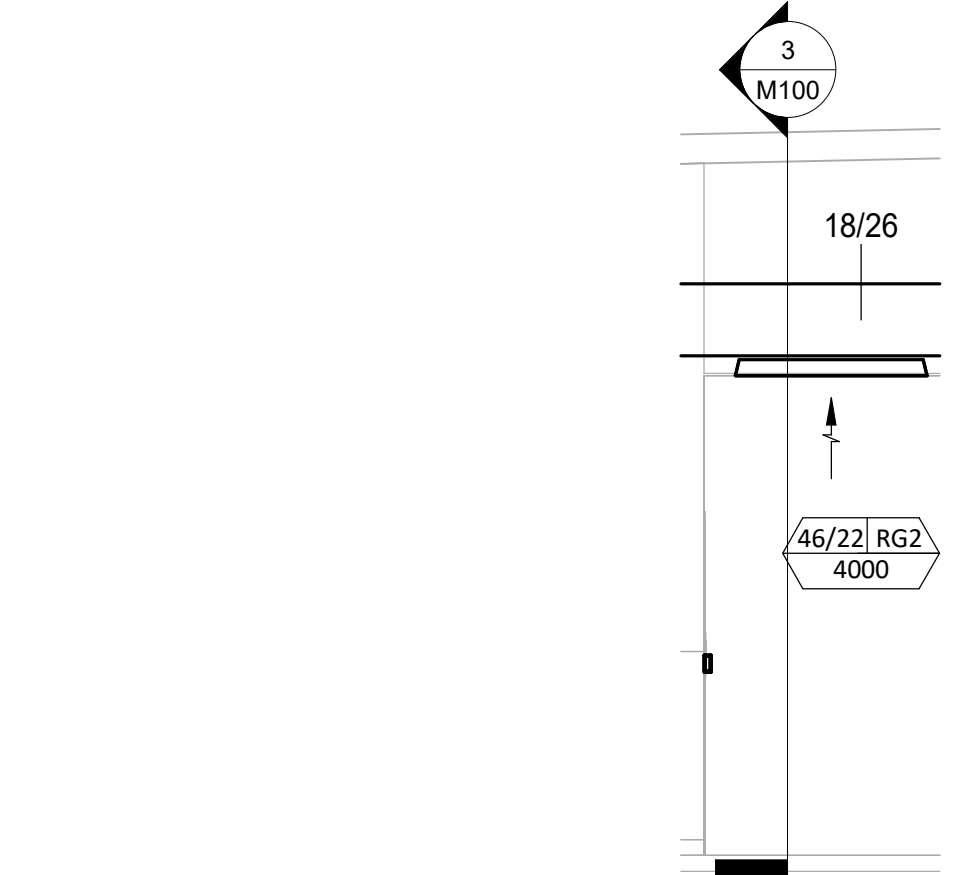
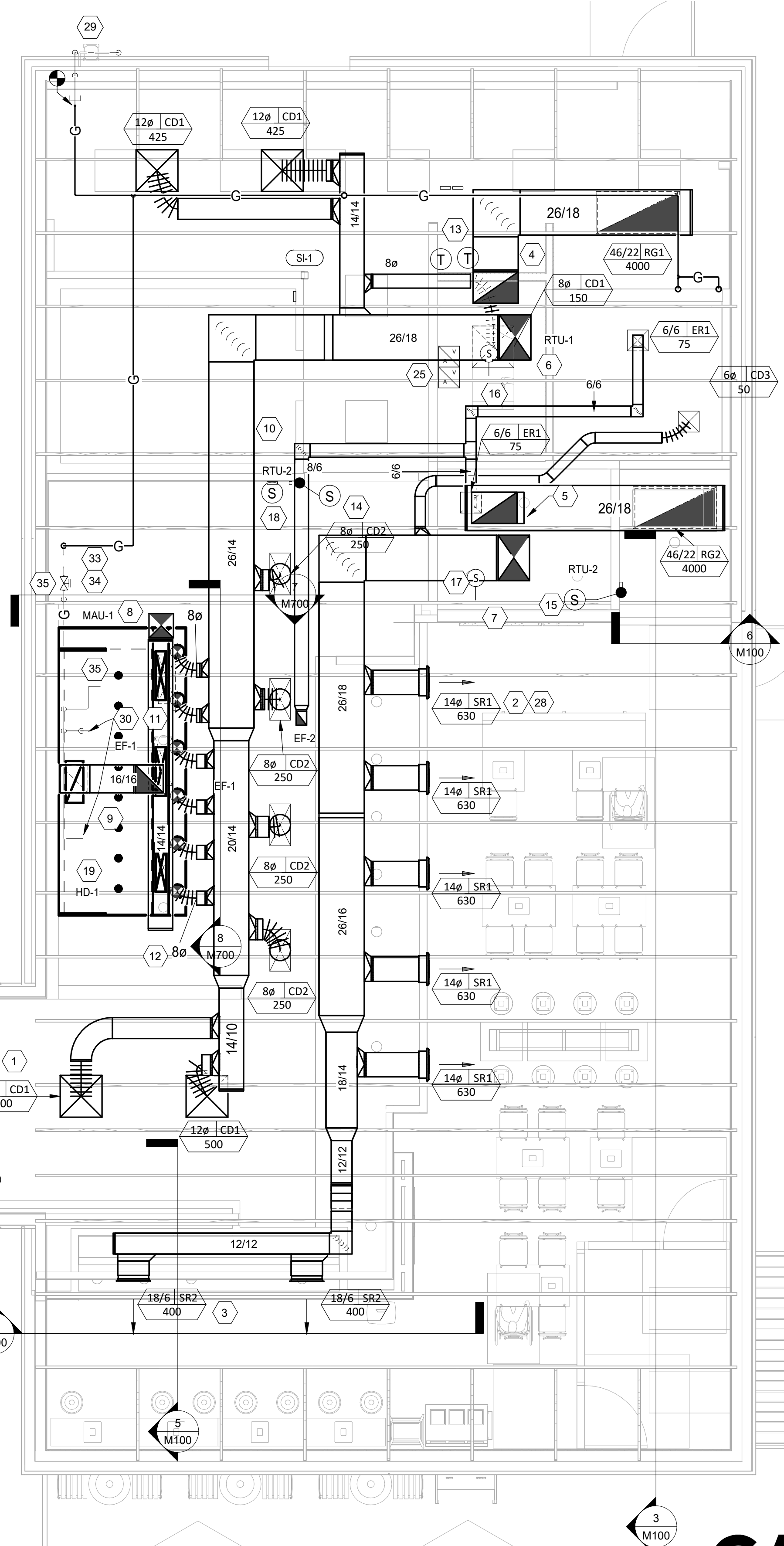
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# HVAC PLAN NOTES

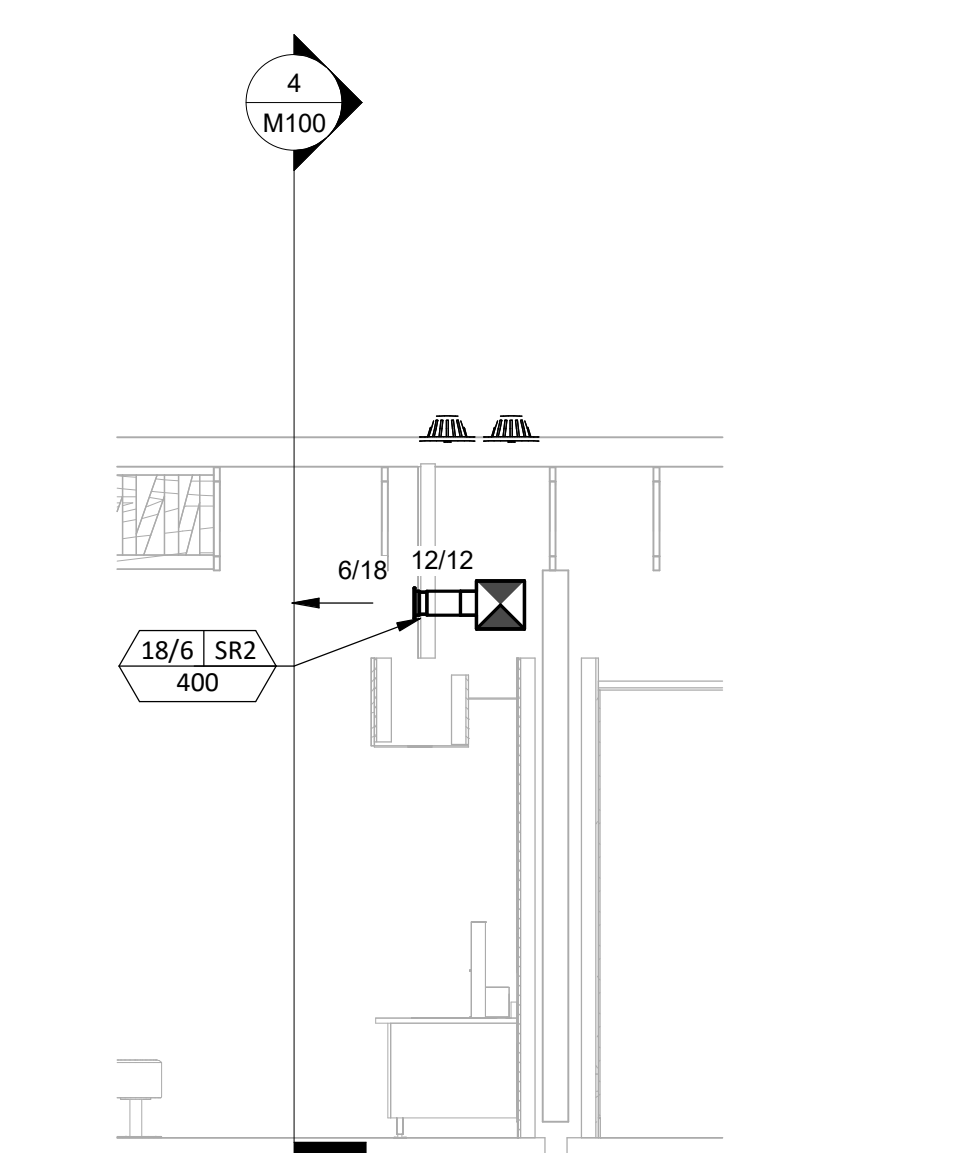
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- 26/18 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 26/18 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 26/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 26/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-2 SUPPLY CONNECTION IN ROOF CURB.
- 16/16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 24/10 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 28/10 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 (TS200) AND RTU-2 (TS200) AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT. PROVIDE CAT5E CABLE FROM RTU-1 TS200 TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 ND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 84" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO RTU-1 THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO RTU-2 THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO RTU-1 THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO RTU-2 THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 84" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- 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 2 AND 4/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.

# HVAC PLAN NOTES

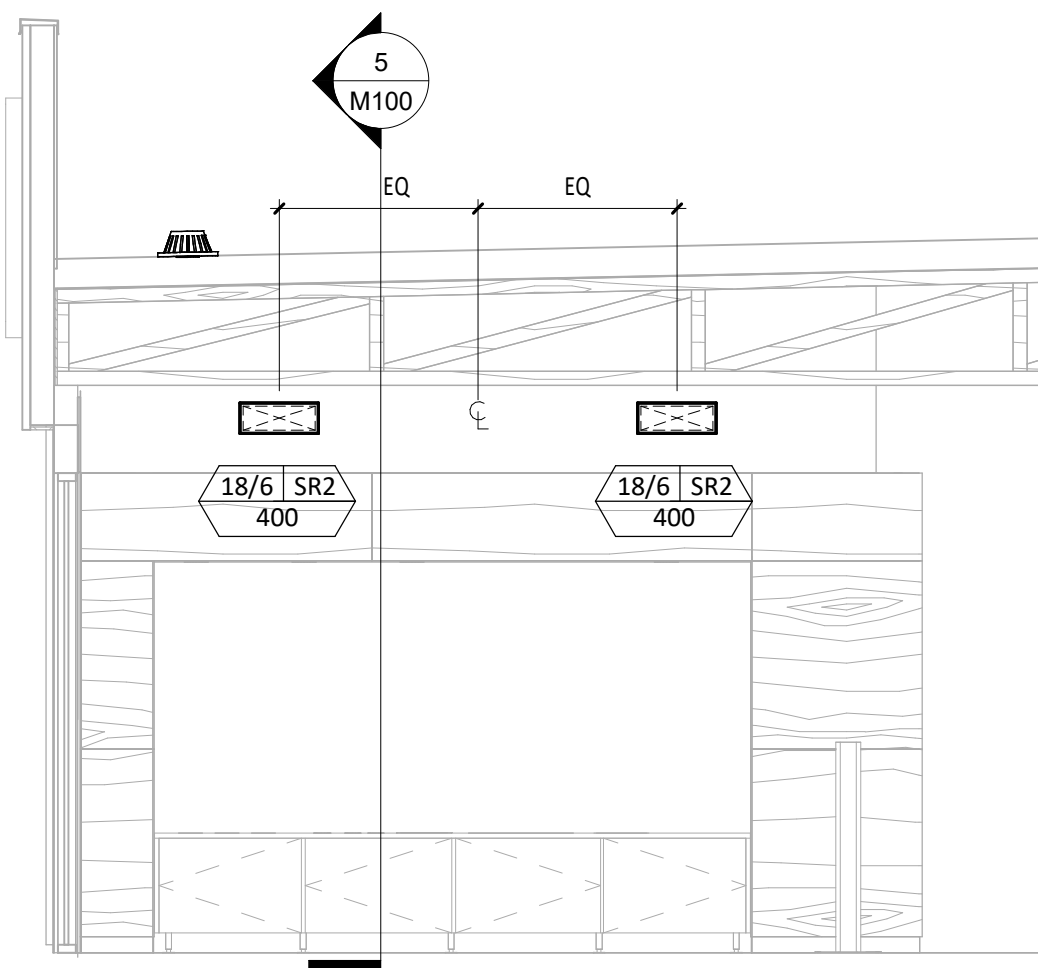
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. CMG VENDOR TO INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' 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.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. CMG VENDOR TO 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' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. 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.
- 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.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
- NEW GAS METER; LANDLORD SHALL BRING GAS TO REAR OF BUILDING. LANDLORD SHALL FURNISH AND INSTALL A MINIMUM OF 1600MBH NATURAL GAS SERVICE WITH A DELIVERY PRESSURE OF 7" WATER COLUMN ROUTED TO A LOCATION WITHIN THE LEASED PREMISES AS DETERMINED BY TENANT IN ACCORDANCE WITH TENANT'S PLANS FOR THE PREMISES. ALL RELATED NATURAL GAS UTILITY PIPING AND EQUIPMENT TO TENANT SPACE SHALL BE BY LANDLORD. SEE SITE UTILITY PLAN FOR ON-SITE GAS ROUTING AND ADDITIONAL INFORMATION.
- PROVIDE GAS CONNECTIONS TO THE RICE COOKER AND RANGE PER DETAIL 7/P700.
- SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO RTU-1, RTU-2, MAU-1.
- REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
- PROVIDE MANUAL SHUT-OFF VALVE FOR GAS LINE ABOVE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER. SEE GAS RISER DIAGRAM ON THIS SHEET AND DETAIL 1/M900.
- PROVIDE GAS CONNECTION TO THE DUAL-VAT FRYER PER DETAIL 3/M900. GAS DOWN TO KITCHEN EQUIPMENT HEADER. PROVIDE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER, EMERGENCY SHUT-OFF INTERLOCKED TO HOOD FIRE SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION WITH THE KITCHEN HOOD VENDOR AND LOCAL AHJ REQUIREMENTS.



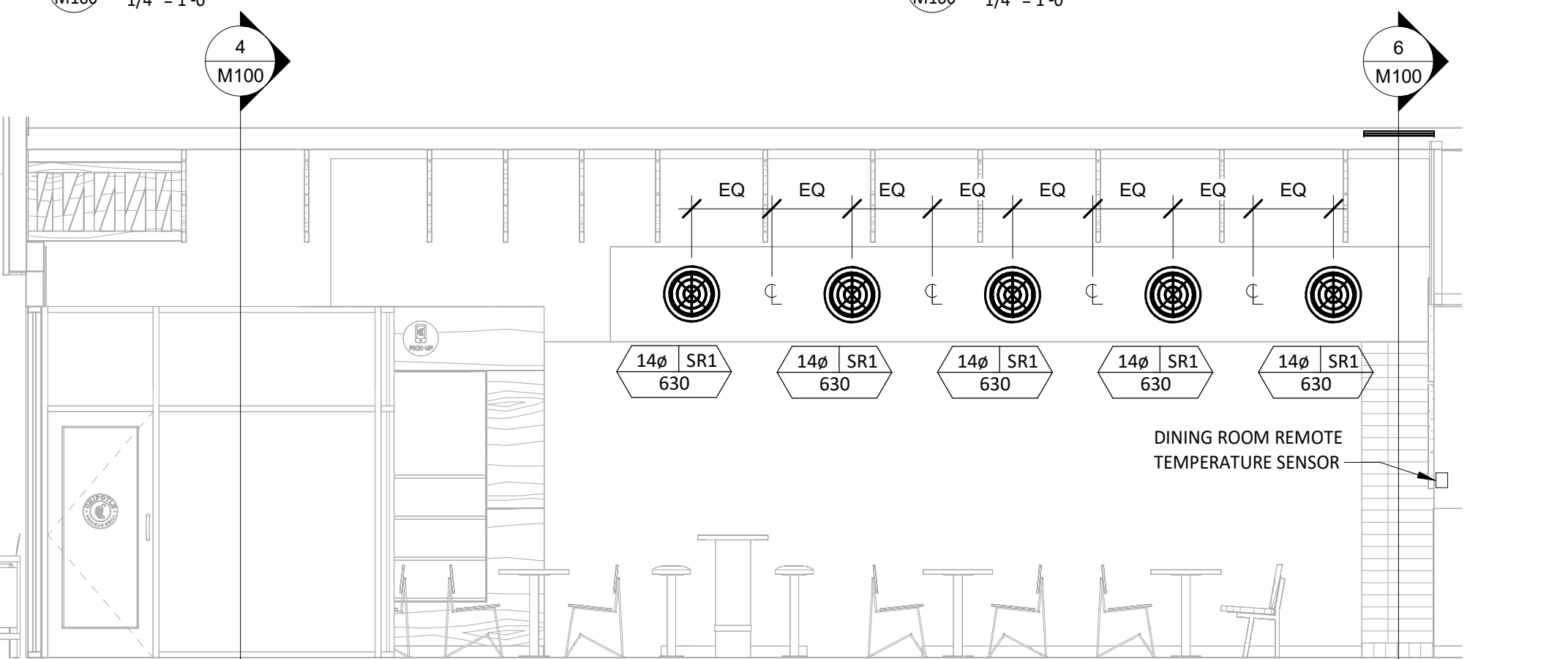
3 M100 1/4" = 1'-0"



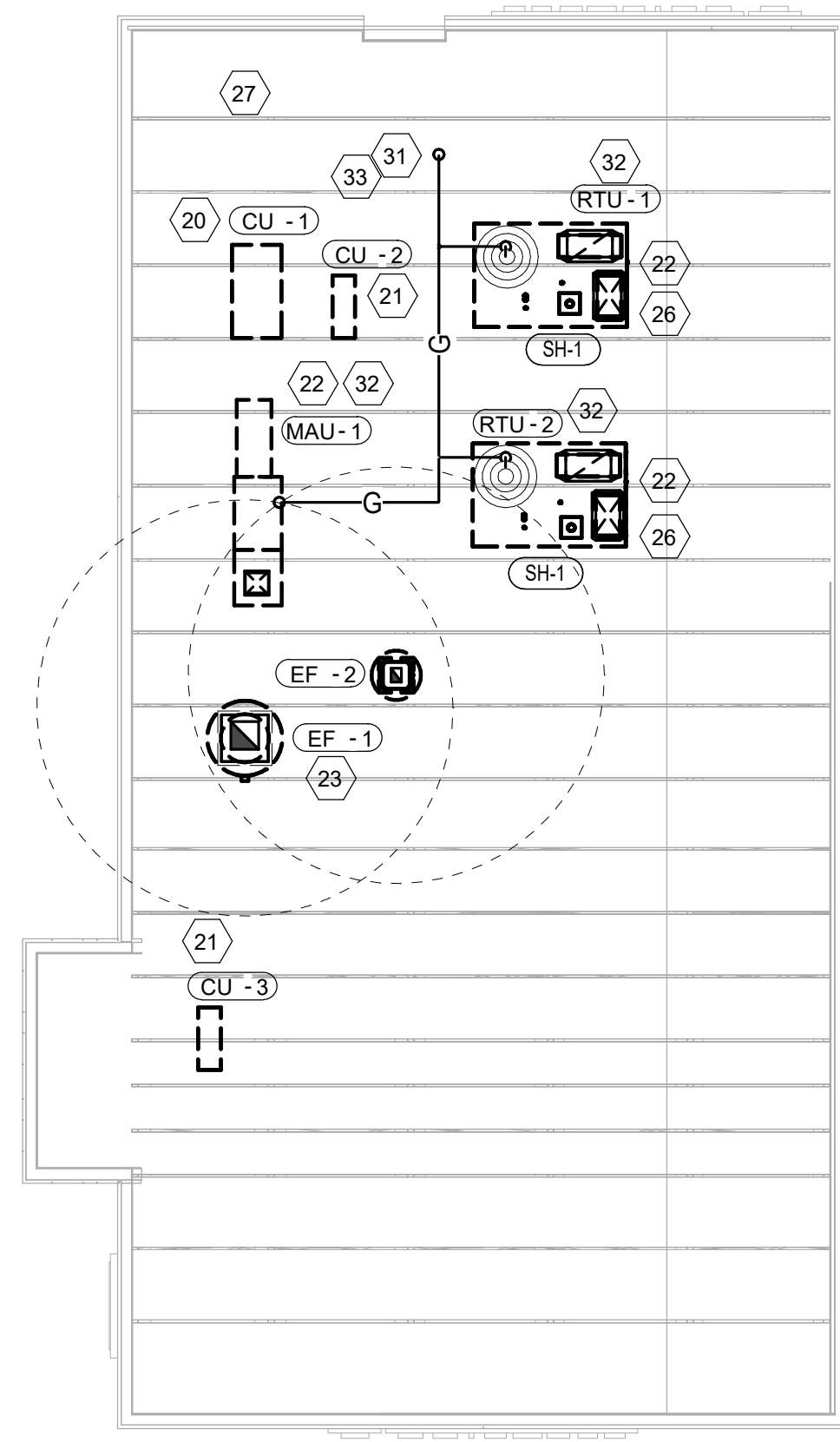
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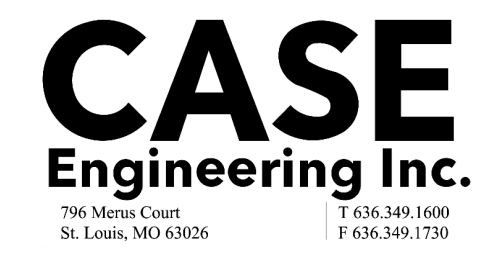
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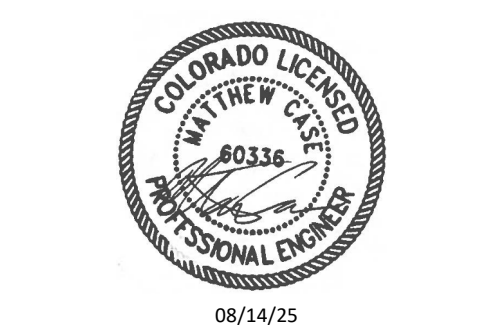
6 M100 1/4" = 1'-0"



2 M100 1/8" = 1'-0"



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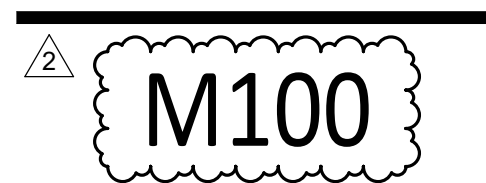
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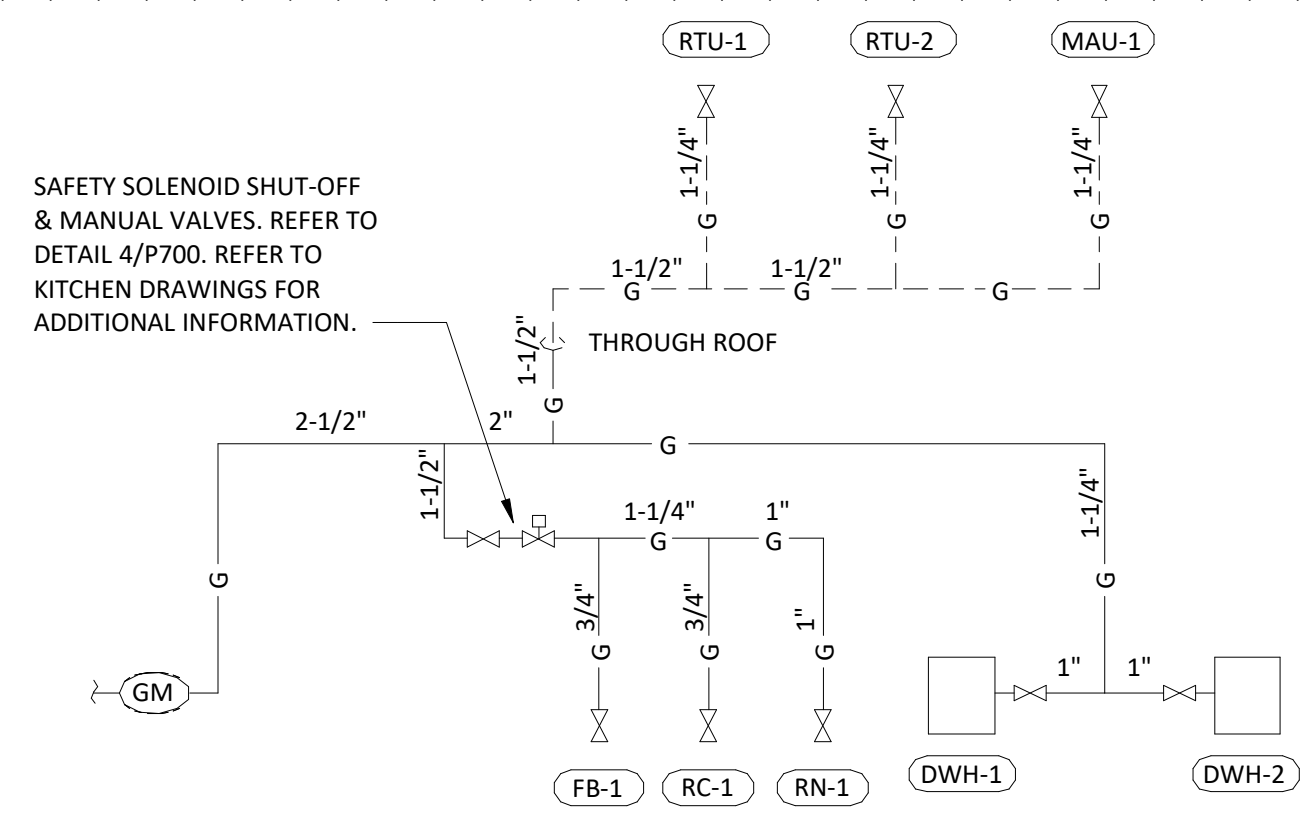
STORE NO.: 5609  
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Checked: JV  
Project No: CMG 5609

Contents:  
HVAC PLAN





1 GAS DISTRIBUTION DIAGRAM  
M600/ NOT TO SCALE

CONNECTED GAS LOAD			
FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	65
WATER HEATER	DWH-2	199	65
FRYER	FB-1	80	85
GRIDDLE	GR-1	120	95
MAKEUP AIR UNIT	MAU-1	225	70
RICE COOKER	RC-1	33	90
RICE COOKER (FUTURE)	RC-1	33	90
RANGE	RN-1	192	95
KITCHEN ROOFTOP UNIT	RTU-1	180	50
DINING ROOM ROOFTOP UNIT	RTU-2	240	65
GRAND TOTAL		1501	MAX: 95

- NOTES:  
 1. PRESSURE REQUIRED AFTER METER: 7" W.C.  
 2. DISTANCES ARE APPROXIMATE  
 3. PROVIDE IFGC REFERENCE CODE INFORMATION.

**SANITIZING EQUIPMENT SCHEDULE**

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

**FAN SCHEDULE**

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST DU180HFA EXHAUST FAN	2,550 CFM	1.45 in-wg	183 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	DIRECT DRIVE DU180HFA UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

**VIROGUARD SCHEDULE**

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU180HFA	TDC	GC	ENVIROMATIC

**CONDENSING UNIT SCHEDULE**

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT			ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			COMPRESSORS	CIRCUITS	TYPE	CHARGE	WEIGHT	MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/1/60	WCS	GC	RUSSELL DOE	RF0060M4SDAALNT	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9F	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5F	FURNISHED WITH ICE MAKER

**MAKEUP AIR UNIT SCHEDULE**

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	70,942 Btu/h	65,267 Btu/h	21 °F	495 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

**KITCHEN HOOD SCHEDULE**

TAG	DESCRIPTION	MAX COOKING TEMP.	AIRFLOW	E.S.P.	EXHAUST PLENUM					PERFORATED SUPPLY PLENUMS					NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS		
					DUCT COLLARS					MAU PLENUM									AC PLENUM			MANUFACTURER	MODEL
					NO.	WIDTH	LENGTH	LENGTH	WIDTH	LENGTH	WIDTH	AIRFLOW	NO.	WIDTH					LENGTH	AIRFLOW			
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	2,550 CFM	0.96 in-wg	1	10"	24"	13' - 9"	4' - 3"	54"	19"	1,300 CFM	3	6"	2' - 4"	696 CFM	8	8"	CAPTIVE-AIRE	5424 ND-2-ACPSPF	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, 24V GAS VALVE, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR		

**ROOFTOP UNIT SCHEDULE**

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW			NET COOLING CAPACITY				HEATING CAPACITY			NUMBER OF		REFRIGERANT		ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	DB	WB	COND. EAT	INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE	WEIGHT	MOCP	FLA			V/P/H	MANUFACTURER		MODEL
RTU-1	KITCHEN ROOFTOP UNIT	10 ton	11.2	4,000 CFM	500 CFM	1.0 in-wg	118,000 Btu/h	91,000 Btu/h	80 °F	67 °F	80 °F	250,000 Btu/h	205,000 Btu/h	65 °F	2	2	R-454B	1,445 lb	80 A	66 A	208/3/60	CMG	GC	CARRIER	48FEFN12	FURNISHED WITH COMP. ENTHALPHY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, HOT GAS REHEAT & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10 ton	11.2	4,000 CFM	1,000 CFM	1.0 in-wg	118,000 Btu/h	91,000 Btu/h	80 °F	67 °F	80 °F	250,000 Btu/h	205,000 Btu/h	65 °F	2	2	R-454B	1,445 lb	80 A	66 A	208/3/60	CMG	GC	CARRIER	48FEFN12	FURNISHED WITH COMP. ENTHALPHY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, HOT GAS REHEAT & UNIT-MOUNTED CONVENIENCE RECEPTACLE

**AIR TERMINAL SCHEDULE**

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	PROVIDE WITH INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	ARCHITECTURAL GRILLE	18"x6"	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	RGDD-1806-F	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD

**CONTROL FUNCTIONS**

- A. 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.  
 B. 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 THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.  
 C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

**AIR BALANCE SCHEDULE**

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	2,550 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,300 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	4,000 CFM	3,500 CFM	0 CFM	500 CFM
RTU-2	4,000 CFM	3,000 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM



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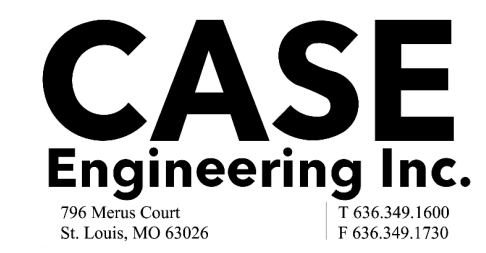
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08/14/25	CITY COMMENTS

Revisions:

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2	08/14/25	CITY COMMENTS

Drawn: JW  
 Checked: JW  
 Project No: CMG 5609

Contents:  
 MECHANICAL SCHEDULES



M600

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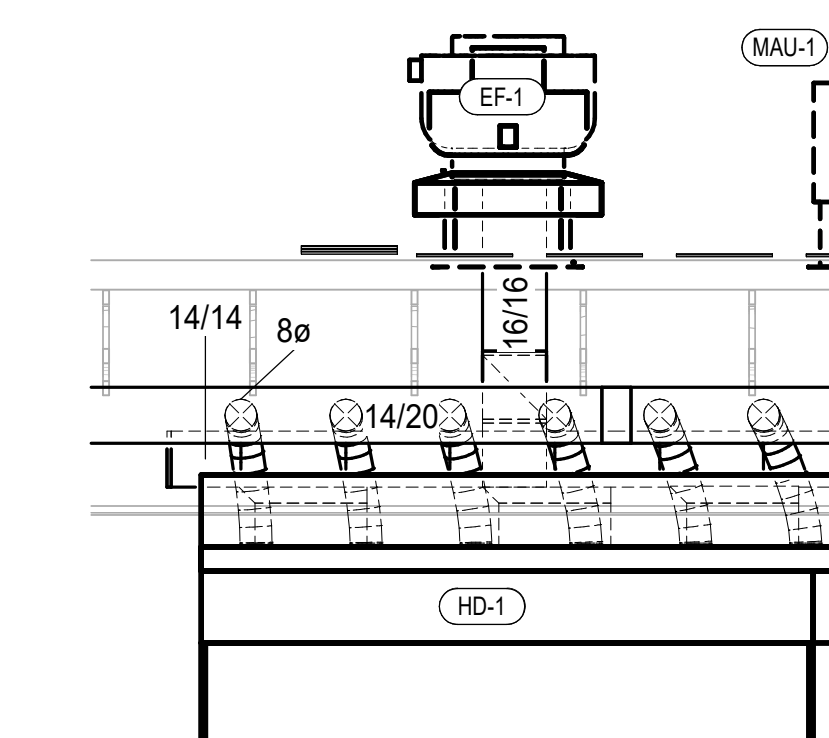
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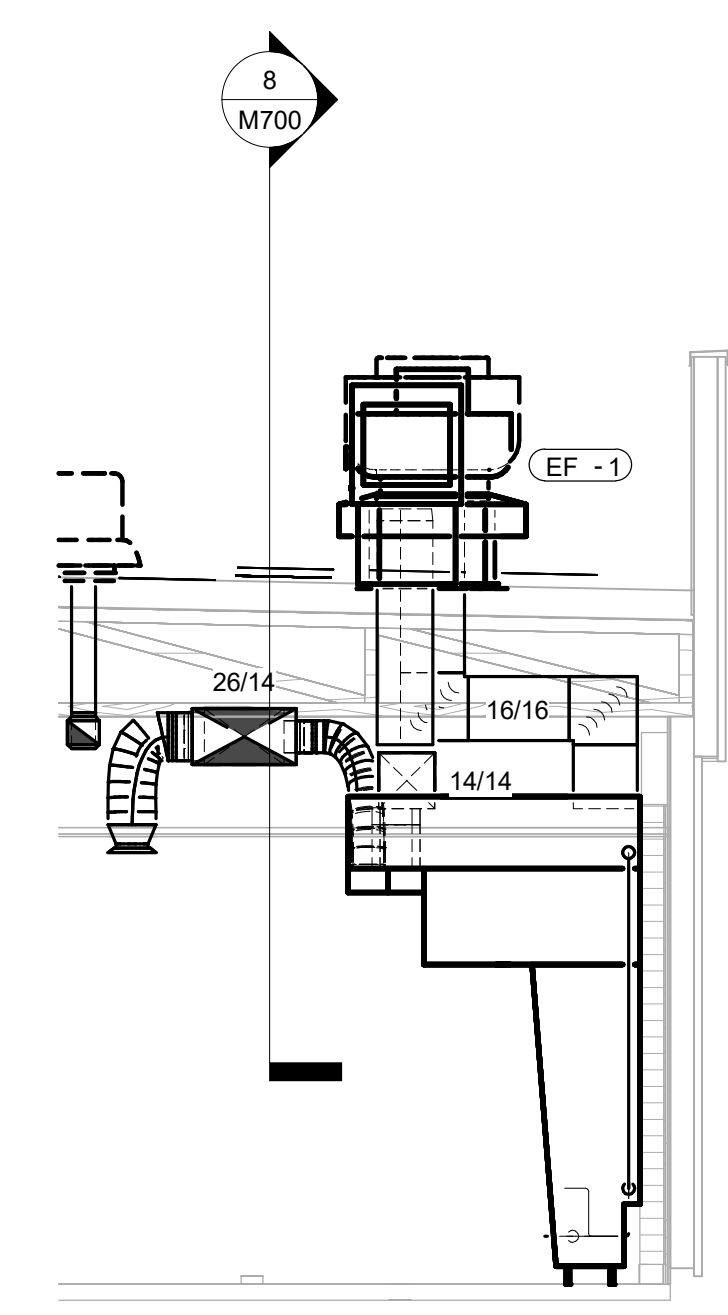
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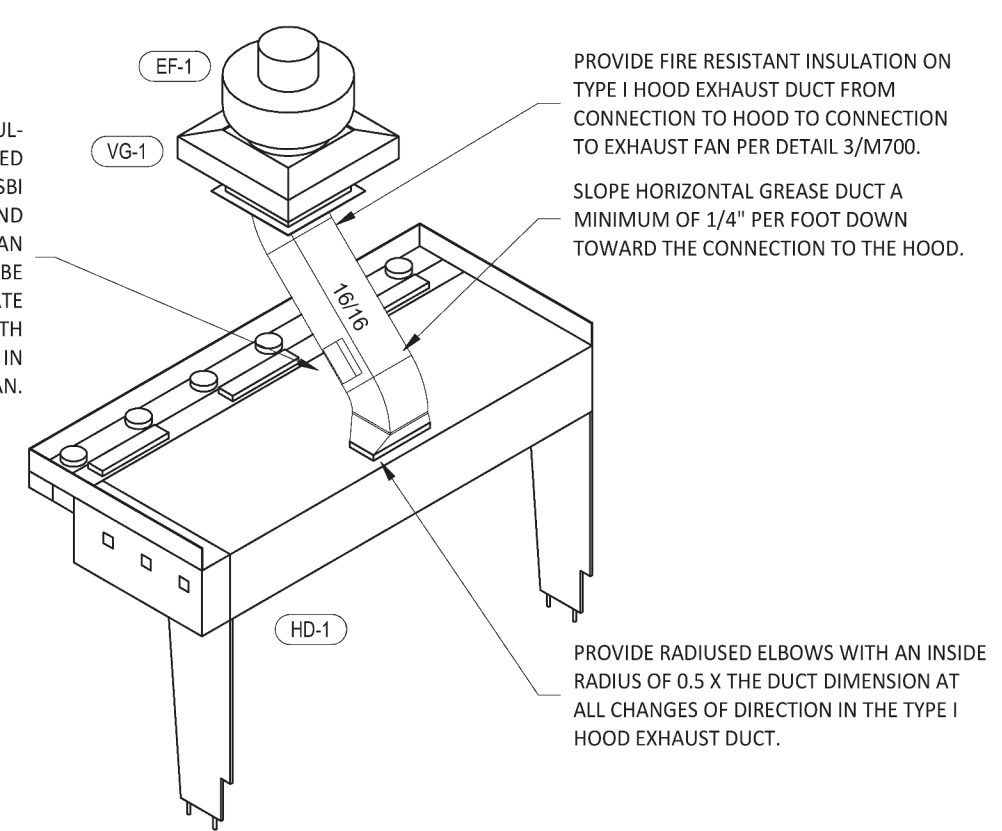
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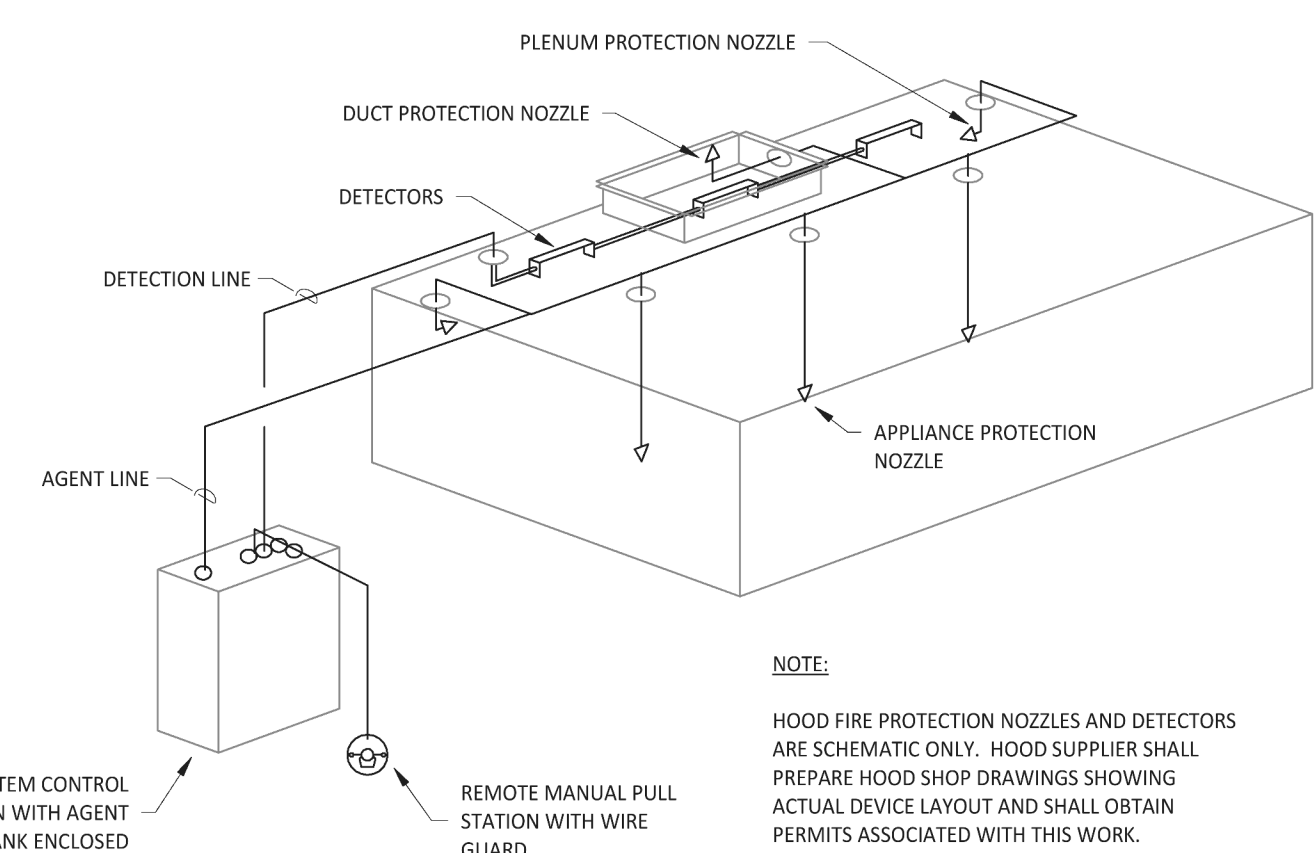
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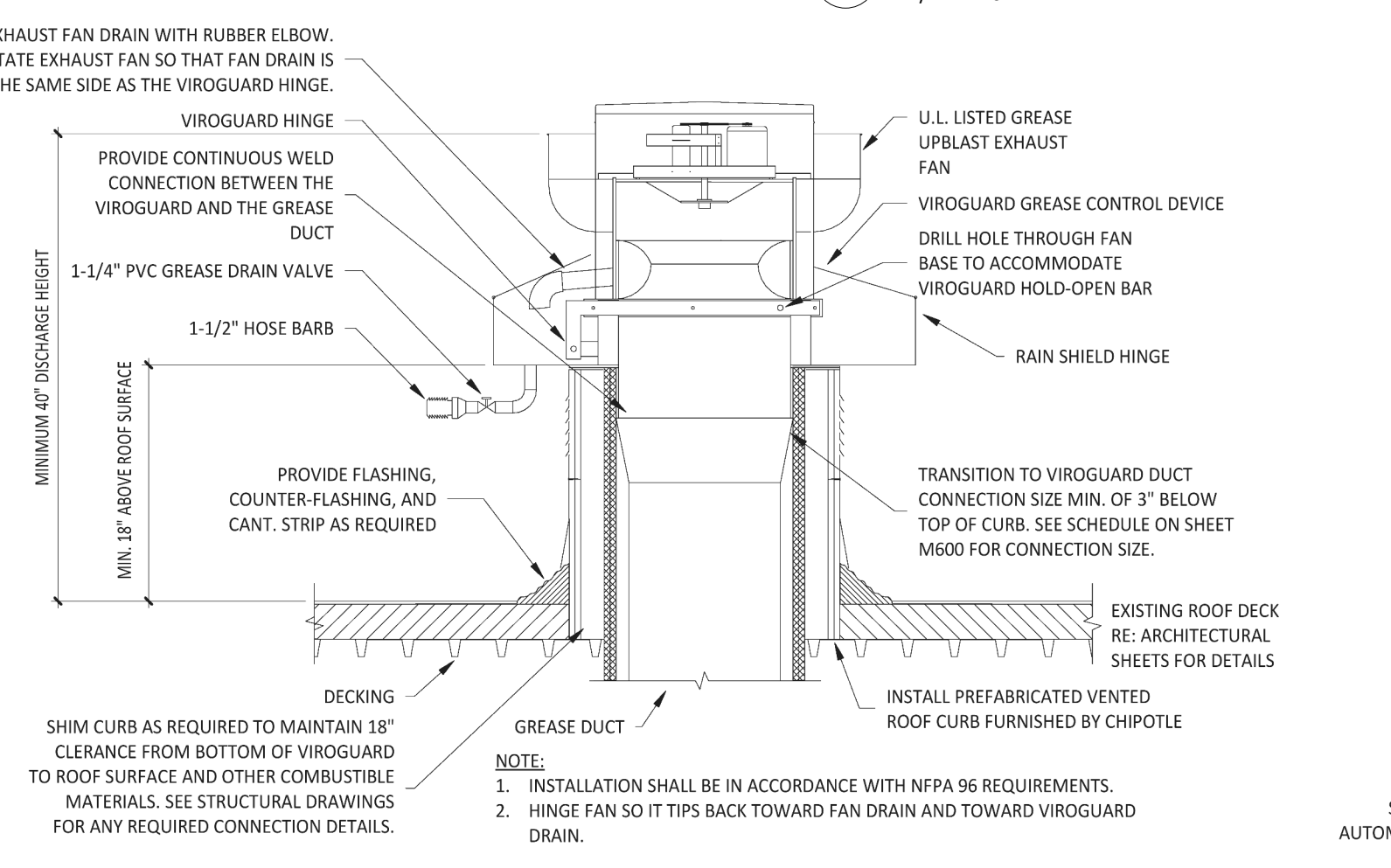
7 DUCT SECTION AT HOOD  
 1/4" = 1'-0"



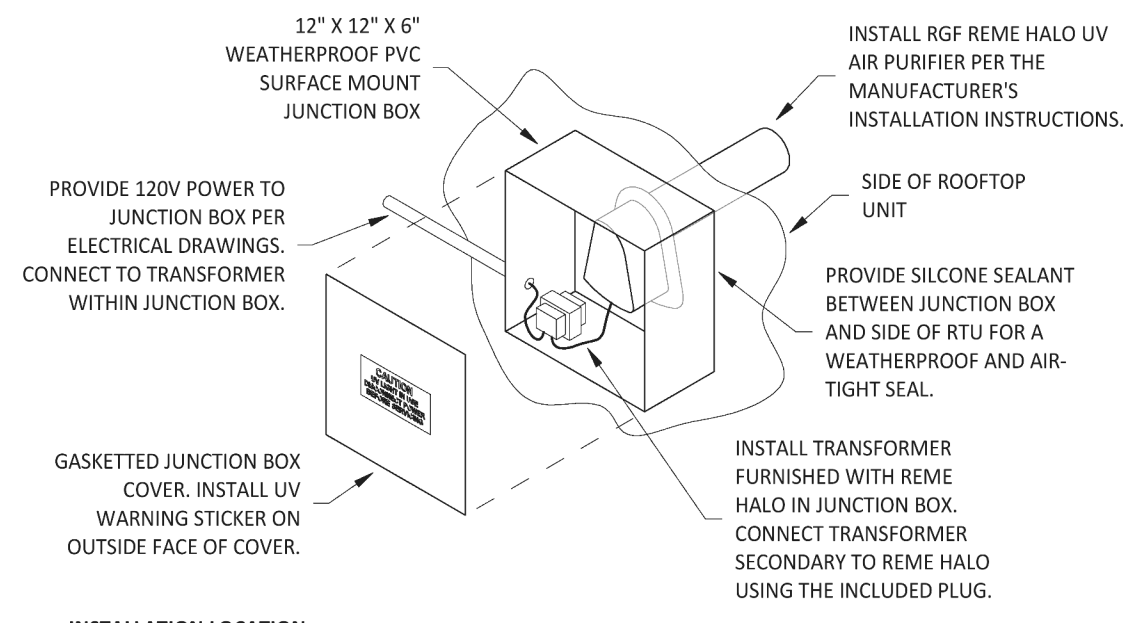
9 HOOD EXHAUST ISOMETRIC  
 NOT TO SCALE



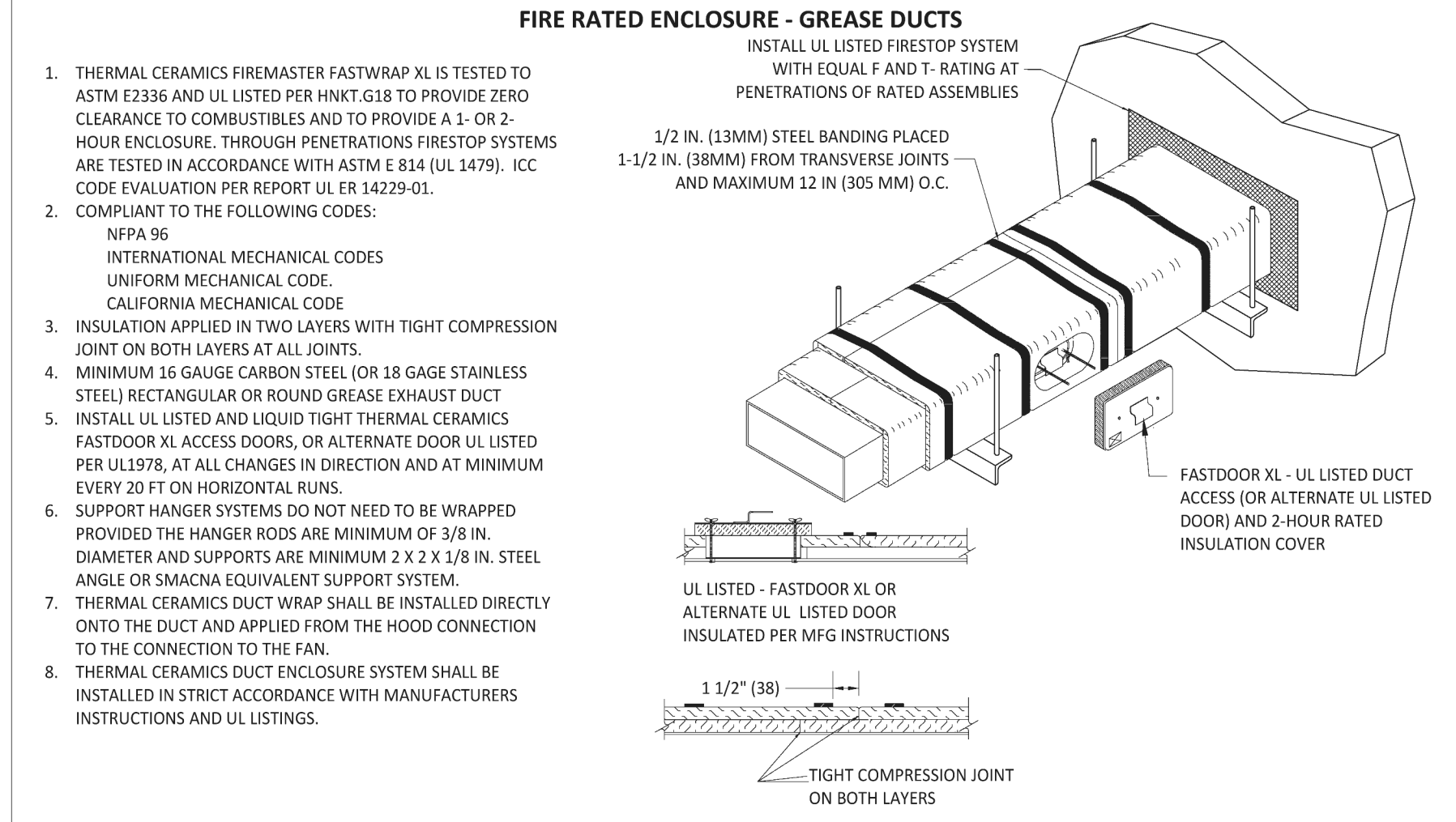
4 FIRE SUPPRESSION SYSTEM SCHEMATIC  
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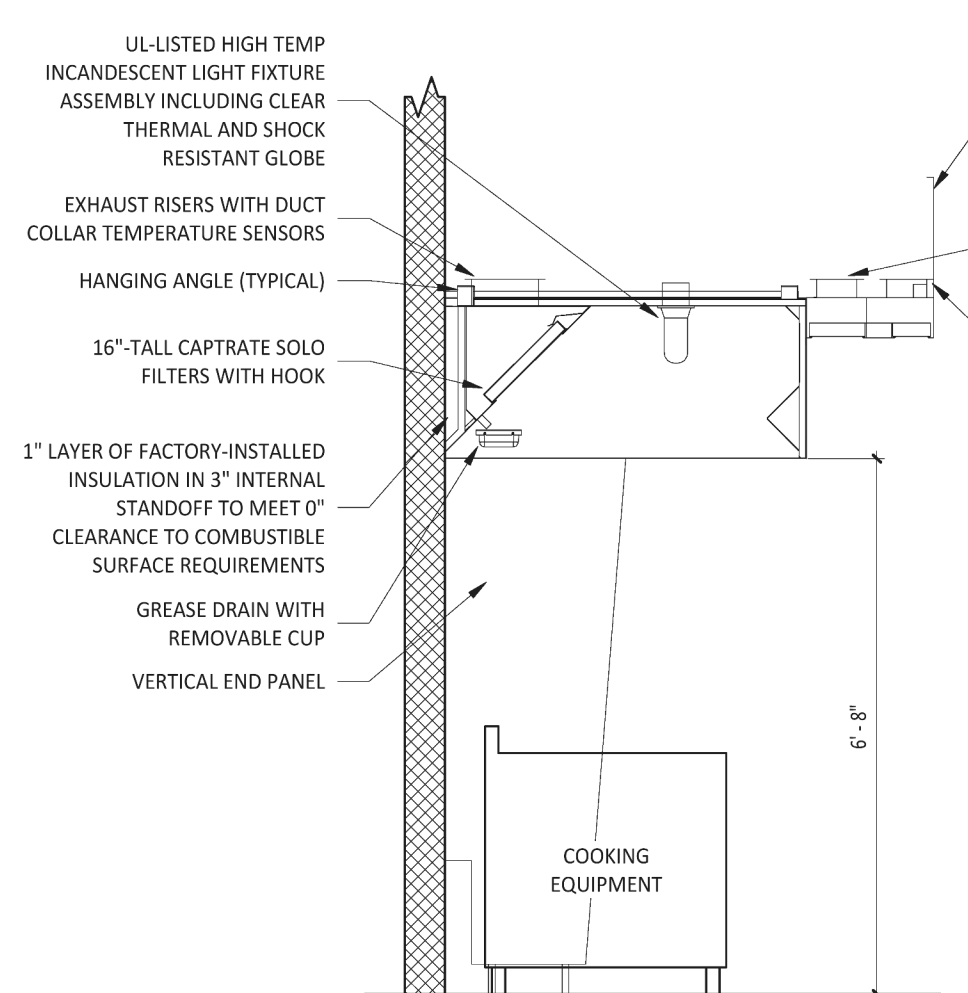
5 GREASE EXHAUST FAN  
 NOT TO SCALE



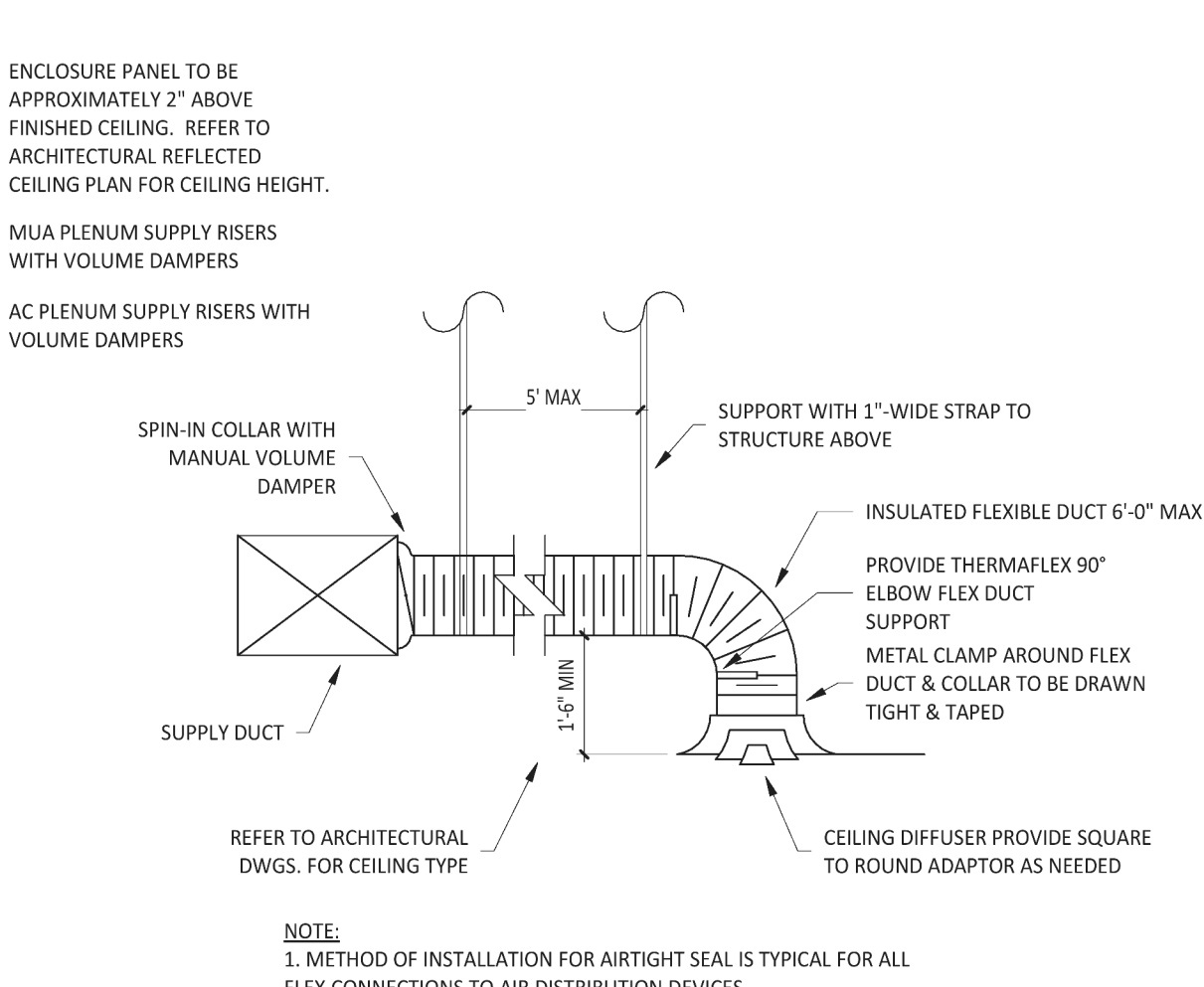
6 UV AIR PURIFIER INSTALLATION  
 NOT TO SCALE



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



2 HOOD SECTION VIEW  
 NOT TO SCALE



1 DIFFUSER CONNECTION  
 NOT TO SCALE

**INSTALLATION LOCATION**  
 INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:  
**TRANE:** INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.  
 **YORK:** INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

EXHAUST FAN DRAIN WITH RUBBER ELBOW. ROTATE EXHAUST FAN SO THAT FAN DRAIN IS ON THE SAME SIDE AS THE VIROGUARD HINGE.  
 VIROGUARD HINGE  
 PROVIDE CONTINUOUS WELD CONNECTION BETWEEN THE VIROGUARD AND THE GREASE DUCT  
 1-1/4" PVC GREASE DRAIN VALVE  
 1-1/2" HOSE BARB  
 MIN. 18" ABOVE ROOF SURFACE  
 MIN. 18" ABOVE ROOF SURFACE HEIGHT  
 PROVIDE FLASHING, COUNTER-FLASHING, AND CANT. STRIP AS REQUIRED  
 SHIM CURB AS REQUIRED TO MAINTAIN 18" CLEARANCE FROM BOTTOM OF VIROGUARD TO ROOF SURFACE AND OTHER COMBUSTIBLE MATERIALS. SEE STRUCTURAL DRAWINGS FOR ANY REQUIRED CONNECTION DETAILS.  
 DECKING  
 GREASE DUCT  
 U.L. LISTED GREASE UPBLAST EXHAUST FAN  
 VIROGUARD GREASE CONTROL DEVICE  
 DRILL HOLE THROUGH FAN BASE TO ACCOMMODATE VIROGUARD HOLD-OPEN BAR  
 RAIN SHIELD HINGE  
 TRANSITION TO VIROGUARD DUCT CONNECTION SIZE MIN. OF 3" BELOW TOP OF CURB. SEE SCHEDULE ON SHEET M600 FOR CONNECTION SIZE.  
 EXISTING ROOF DECK RE: ARCHITECTURAL SHEETS FOR DETAILS  
 INSTALL PREFABRICATED VENTED ROOF CURB FURNISHED BY CHIPOTLE  
**NOTE:**  
 1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.  
 2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

**NOTE:**  
 HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

- FIRE RATED ENCLOSURE - GREASE DUCTS**  
 INSTALL UL LISTED FIRESTOP SYSTEM WITH EQUAL F AND T-RATING AT PENETRATIONS OF RATED ASSEMBLIES
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT-G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 834 (UL 1479). ICC CODE EVALUATION PER REPORT UL E-14229-01.
  2. COMPLIANT TO THE FOLLOWING CODES:  
 NFPA 96  
 INTERNATIONAL MECHANICAL CODES  
 UNIFORM MECHANICAL CODE  
 CALIFORNIA MECHANICAL CODE
  3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
  4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
  5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
  6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
  7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
  8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.

ENCLOSURE PANEL TO BE APPROXIMATELY 2" ABOVE FINISHED CEILING. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING HEIGHT.  
 MUA PLENUM SUPPLY RISERS WITH VOLUME DAMPERS  
 AC PLENUM SUPPLY RISERS WITH VOLUME DAMPERS  
 SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER  
 SUPPORT WITH 1" WIDE STRAP TO STRUCTURE ABOVE  
 INSULATED FLEXIBLE DUCT 6'-0" MAX  
 PROVIDE THERMAFLEX 90° ELBOW FLEX DUCT SUPPORT  
 METAL CLAMP AROUND FLEX DUCT & COLLAR TO BE DRAWN TIGHT & TAPED  
 CEILING DIFFUSER PROVIDE SQUARE TO ROUND ADAPTOR AS NEEDED  
**NOTE:**  
 1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

UL-LISTED HIGH TEMP INCANDESCENT LIGHT FIXTURE ASSEMBLY INCLUDING CLEAR THERMAL AND SHOCK RESISTANT GLOBE  
 EXHAUST RISERS WITH DUCT COLLAR TEMPERATURE SENSORS  
 HANGING ANGLE (TYPICAL)  
 16"-TALL CAPRATRE SOLO FILTERS WITH HOOK  
 1" LAYER OF FACTORY-INSTALLED INSULATION IN 3" INTERNAL STANDOFF TO MEET 0" CLEARANCE TO COMBUSTIBLE SURFACE REQUIREMENTS  
 GREASE DRAIN WITH REMOVABLE CUP  
 VERTICAL END PANEL  
 COOKING EQUIPMENT  
 6'-6"

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

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#7495825**

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	12' 9"	600 DEG	I	HEAVY	200	2550	10'	24'	4'	2550	1530	-0.966"	2895	696	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)		ELECTRICAL	SWITCHES	FIRE HOOD SYSTEM-HANGING PIPING	HOOD WEIGHT
			QTY	HEIGHT			LENGTH	TYPE				SIZE	MODEL #				
1		CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1283 LBS

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT. INSULATION FOR BACK OF HOOD. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. FULL DIMENSION HANGING BRACKET - FRONT.

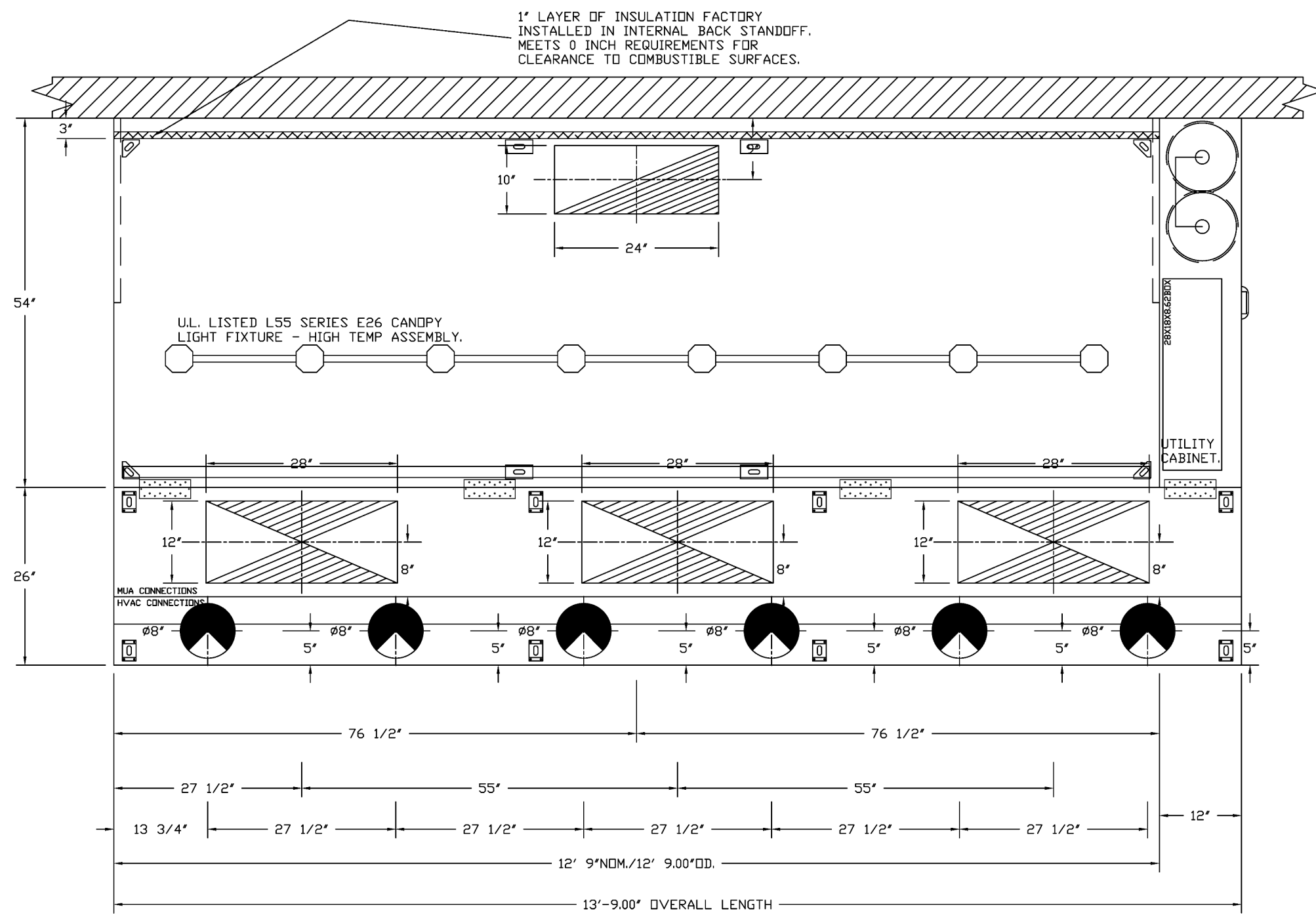
**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	165'	26'	6"	AC	MUA	12"	28"	765	0.189"
							MUA	12"	28"	765	0.189"
							MUA	12"	28"	765	0.189"
							AC	8"	116	0.043"	
							AC	8"	116	0.043"	
							AC	8"	116	0.043"	
							AC	8"	116	0.043"	
							AC	8"	116	0.043"	
							AC	8"	116	0.043"	
							AC	8"	116	0.043"	

**CLEARANCE TO COMBUSTIBLES**

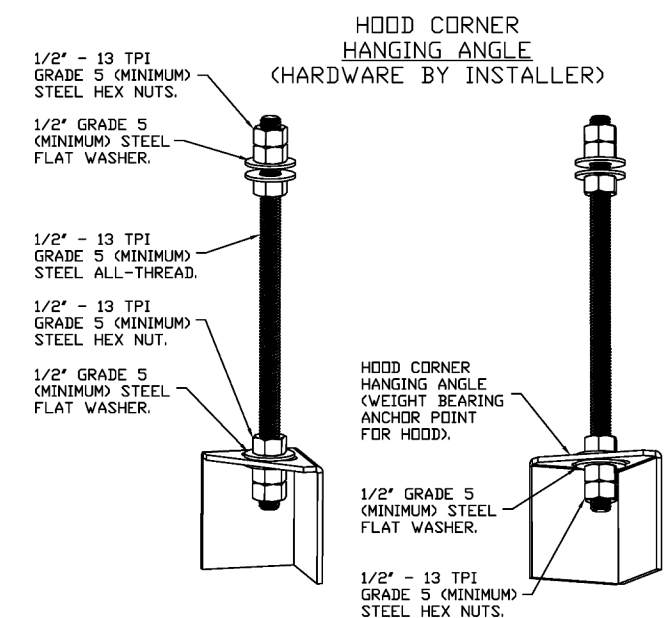
HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"

- \*0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



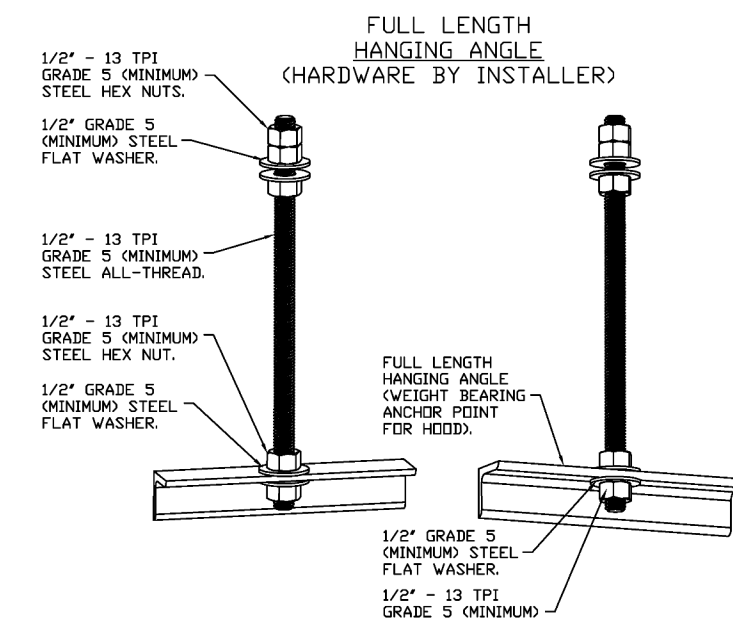
PLAN VIEW - HOOD #1  
12' 9.00" LONG 5424ND-2-ACSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACSP SHIPS LOOSE FOR FIELD INSTALLATION



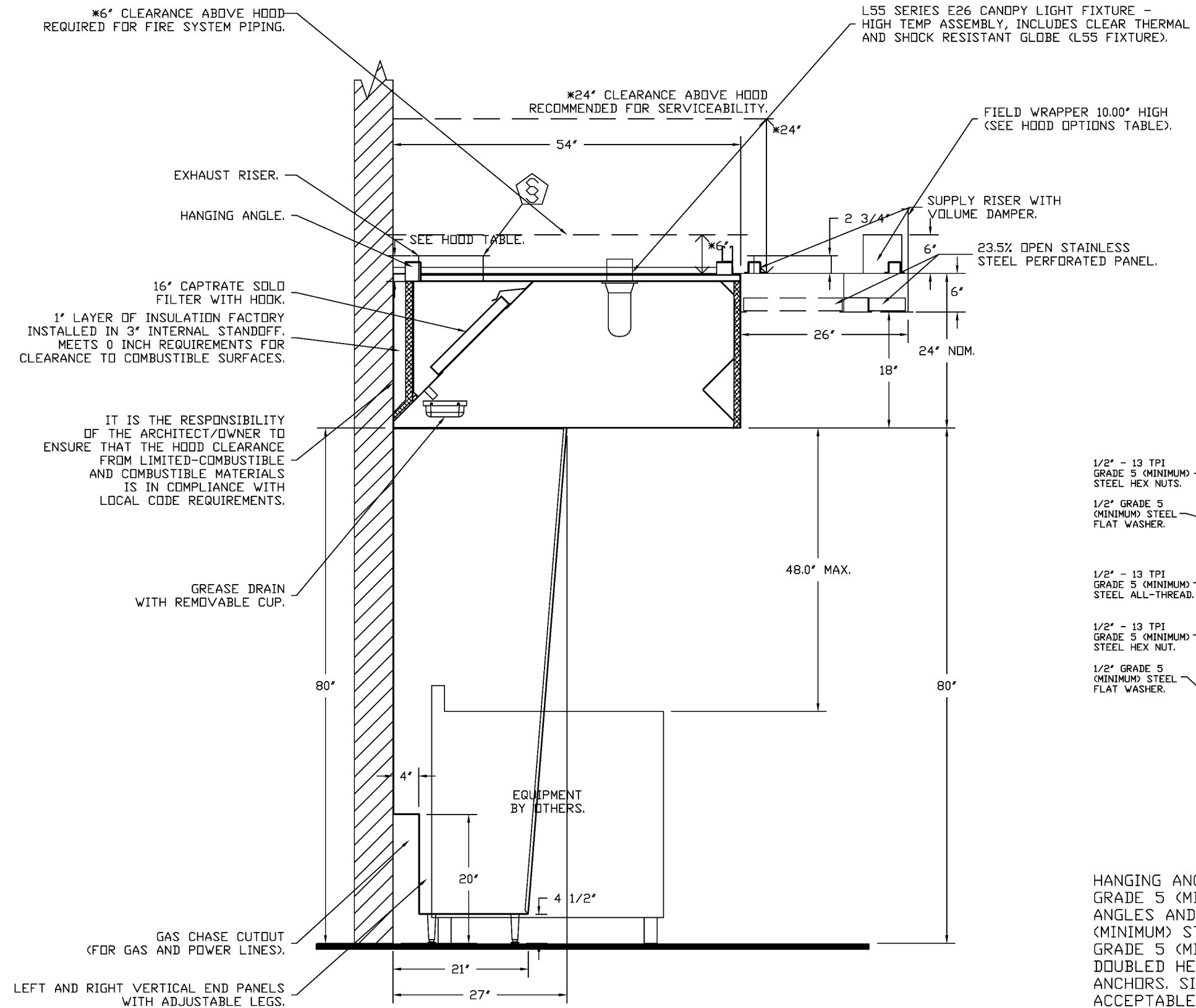
**ASSEMBLY INSTRUCTIONS**

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.



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

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

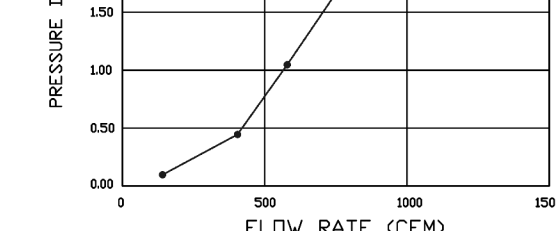
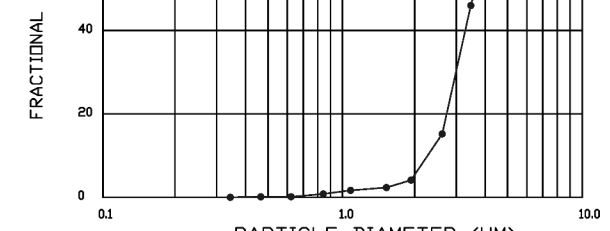
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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.



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:



**REVISIONS**

NO.	DESCRIPTION	DATE
1		
2		

**CAPTIVEAIRE**  
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4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg40@captiveaire.com

CHIPOTLE PETERSON SPACE FORCE #5609  
7351 CENTRAL RAIL PT.,  
COLORADO SPRINGS, CO, 80903

DATE: 4/29/2025

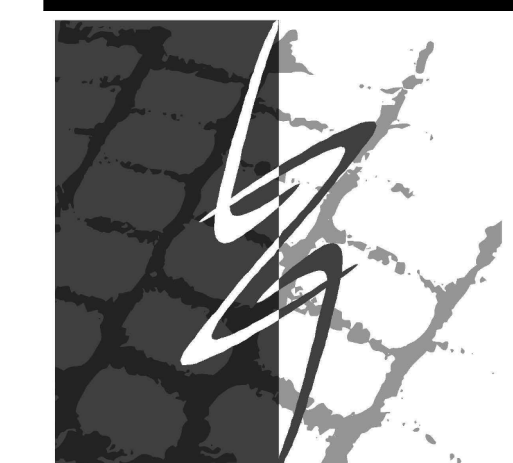
DWG.#: 7495825

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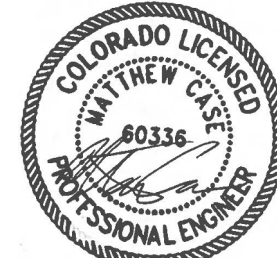
SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1



LINGLE DESIGN GROUP INC  
158 W. MAIN ST.  
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08/14/25

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STORE NO.: 5609

PETERSON SPACE FORCE  
7351 CENTRAL RAIL PT.  
COLORADO SPRINGS, CO 80903

Issue Record:

DATE	DESCRIPTION
04/21/25	PERMIT SET
07/17/25	DB UPDATES
08/14/25	CITY COMMENTS

Revisions:

NO.	DESCRIPTION
2	08/14/25 CITY COMMENTS

Drawn: JW Checked: JW

Project No: CMG 5609

Contents:

HOOD SHEETS

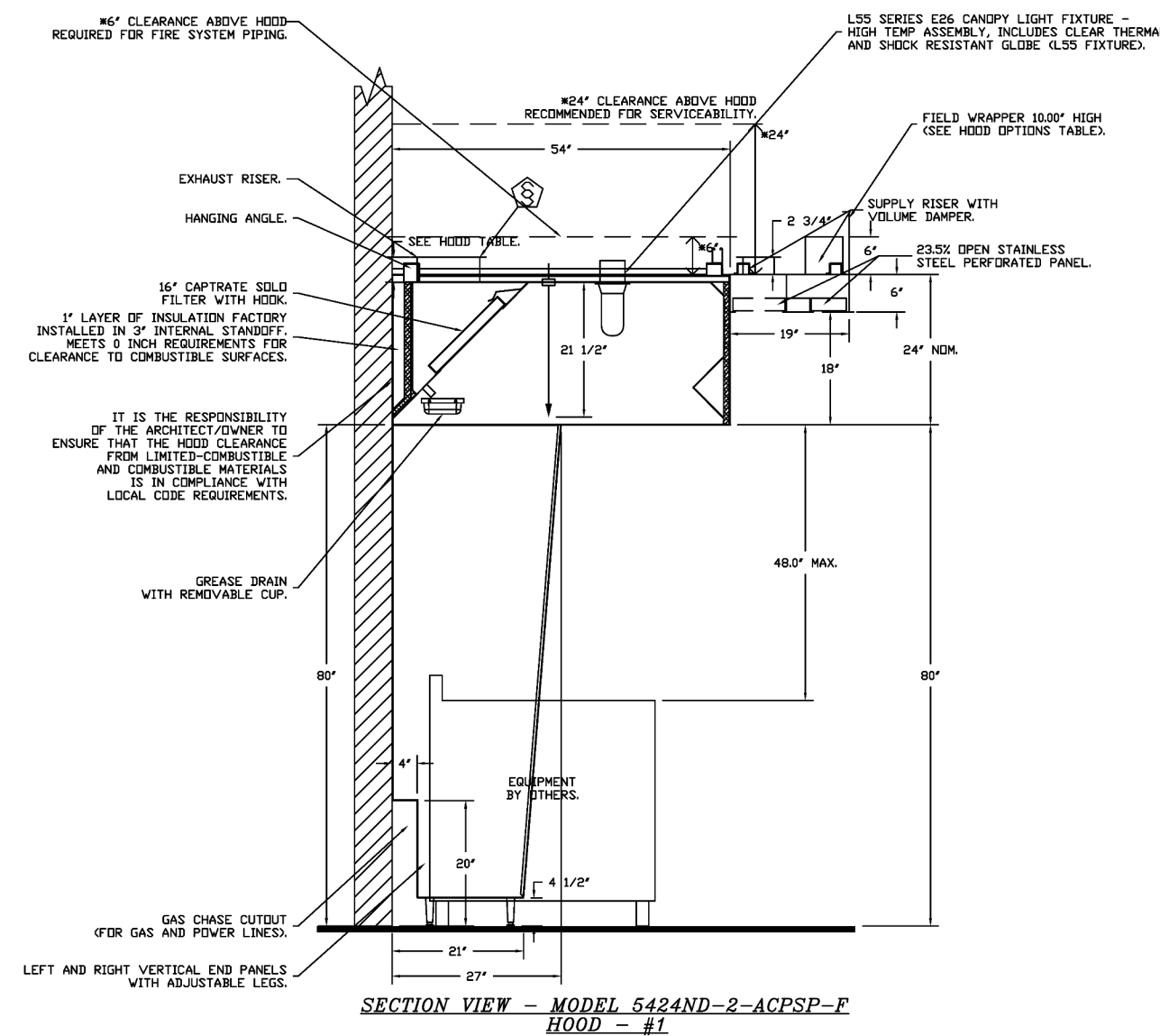
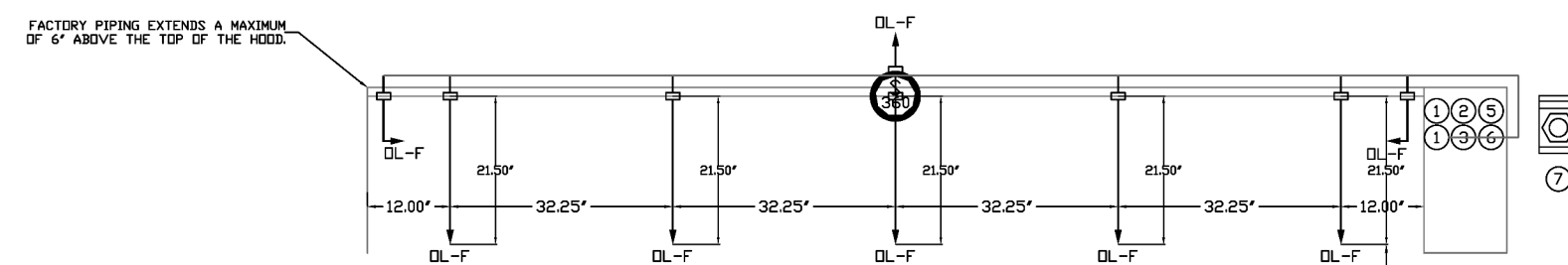
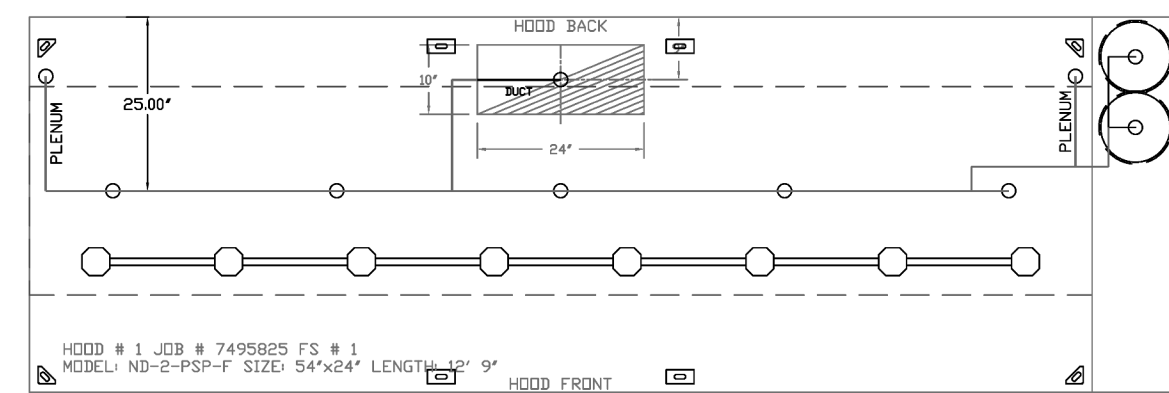
**CASE**  
Engineering Inc.  
796 Mesa Court  
St. Louis, MO 63026  
T 636.349.1800  
F 636.349.1730



**FIRE SYSTEM INFORMATION - JOB#7495825**

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

GAS VALVE(S) FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	CAPTIVEAIRE SYSTEMS



SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NOZZLE APPLIANCE. SEE FIRE SYSTEM CONTRACTOR FOR MORE DETAILS. SEE MANUAL FOR DETAILS.

- NOTES**
- FIELD PIPE DROPS AS SHOWN
  - PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
  - FIELD INSTALLED DROPS: FACTORY WILL PROVIDE. 2" 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
  - SHIP LOOSE DROPS: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
  - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
  - OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
  - IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
  - FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.
  - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
  - THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.
  - DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
  - JDB #: 7495825
  - JDB NAME: CHIPOTLE PETERSON SPACE FORCE #5609.
  - SYSTEM SIZE: TANK-SP-2 DESIGN FP: 32, MAXIMUM FP: 40.
  - HOOD # 1 12" 900' LONG X 54" WIDE X 24" HIGH.
  - RISER # 1 SIZE: 10" X 24".
  - HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
  - HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
  - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

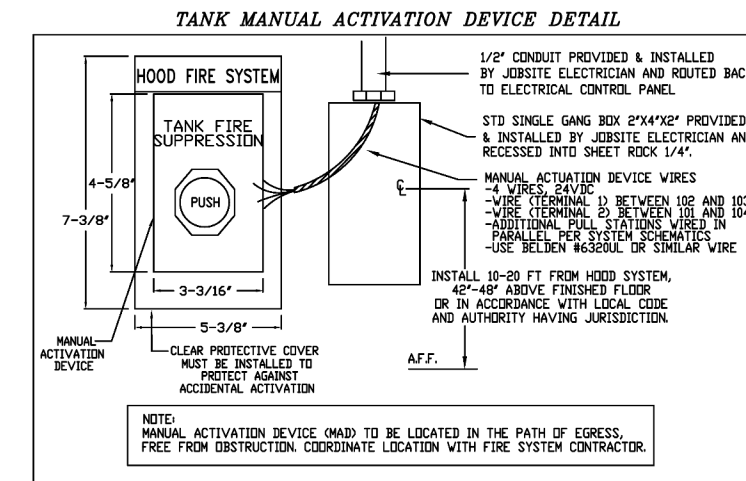
AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	40
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

**LEGEND - FIRE CABINET TANK SYSTEM**

- 4 GALLON TANK
- PRIMARY ACTUATOR RELEASE
- SECONDARY ACTUATOR RELEASE
- PRESSURE SUPERVISION SWITCH
- PRIMARY HOSE ASSEMBLY
- SECONDARY HOSE ASSEMBLY
- REMOTE MANUAL ACTIVATION DEVICE

INCLUDES FIELD INSTALLATION AND HOOKUP BEFORE NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY ONE VISIT TO SET PAIL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST. ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES. ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST.

EXCLUDED: UNION LABOR & PREVAILING WAGE CLAUSE & WAIVER WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANDING OF FIRE CABINET, SHIRT TROP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

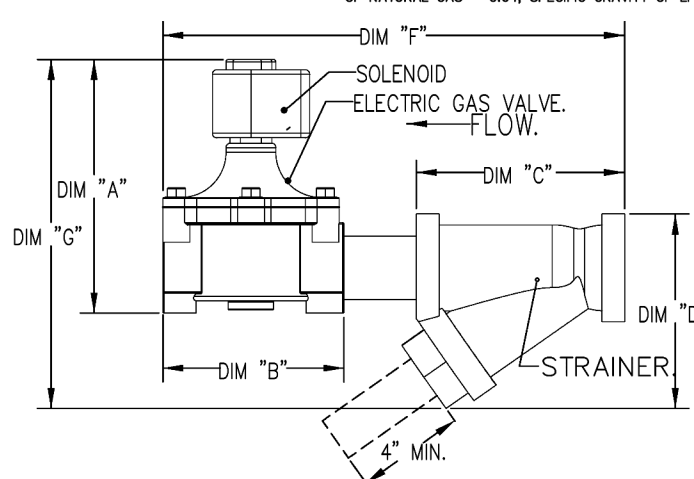


GAS VALVES AND STRAINERS																
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING		GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS					
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN. W.C. DROP NATURAL GAS	FLOW AT 1 IN. W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"		DIM "D"	DIM "E"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	
ELECTRICAL	1-1/2"	24 VAC	0.5 PSI (0 IN. W.C.)	5.0 PSI (1.38 IN. W.C.)	2,400,000 BTU/HR	1,500,000 BTU/HR	7-5/8"	8-3/8"	5-3/4"	8-3/8"	14-1/8"	12-5/16"	HORIZONTAL	5214276-24VDC	4417687	(3000V1)-1/2-24

**ELECTRIC GAS VALVES ONLY SOLENOID OPERATOR.** 1/2"-2" SOLID GAS VALVES ON BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT. 1/2"-2" SOLID GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT. 2" GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

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

**CALCULATIONS** TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN. W.C. PRESSURE DROP: NEW BTU/HR = (BTU/HR AT 1 IN. W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>1.75</sup> TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY: NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>1.75</sup>



**REVISIONS**

NO.	DESCRIPTION	DATE

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**Highwoods Group**  
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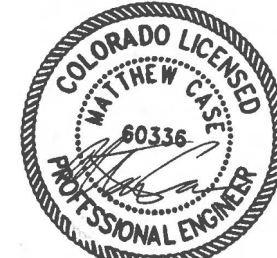
CHIPOTLE PETERSON SPACE FORCE #5609  
7351 CENTRAL RAIL PT.,  
COLORADO SPRINGS, CO, 80903

**DATE:** 4/29/2025  
**DWG.#:** 7495825  
**DRAWN BY:**  
**SCALE:** 1/2" = 1'-0"  
**MASTER DRAWING**

**SHEET NO.**  
2



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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5609  
PETERSON SPACE FORCE  
7351 CENTRAL RAIL PT.  
COLORADO SPRINGS, CO 80903

Issue Record:

DATE	DESCRIPTION
04/21/25	PERMIT SET
07/17/25	DB UPDATES
08/14/25	CITY COMMENTS

Revisions:

NO.	DESCRIPTION	DATE
2	08/14/25	CITY COMMENTS

Drawn: JW Checked: JW  
Project No: CMG 5609  
Contents:

HOOD SHEETS



**CASE**  
Engineering Inc.  
796 Menz Court  
St. Louis, MO 63026  
T 636.349.1800  
F 636.349.1730

**EXHAUST FAN INFORMATION - JOB#7495825**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DUI80HFA	CAPTIVEAIRE	2550	1.450	1322	TEFC, PREMIUM	2.000	1.2830	3	208	7.3	589 FPM	200	20.4
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1429	TEAD-ECH	0.250	0.1040	1	115	2.9		50	7.7

**MUA FAN INFORMATION - JOB#7495825**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SONES
3	MUA - 1	1	A2-D.250-20D	20MF-2-MDD	A2-D.250	2000	2295	0.500	1093	DDP, PREMIUM	1.000	0.5730	3	208	3.8	4.8A	15A	664	8.1

**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	MUA - 1	155409	142976	73°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BDX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
2	EF-2	1	FAN BASE CERAMIC SEAL - DU/DR180HFA - SHIP LOOSE - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
3	MUA - 1	1	1 1/2-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500 CFM
		1	SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SHIP LOOSE GAS STRAINER 1"
3	MUA - 1	1	FREEZE/STAT
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY
3	MUA - 1	1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

**FAN ACCESSORIES**

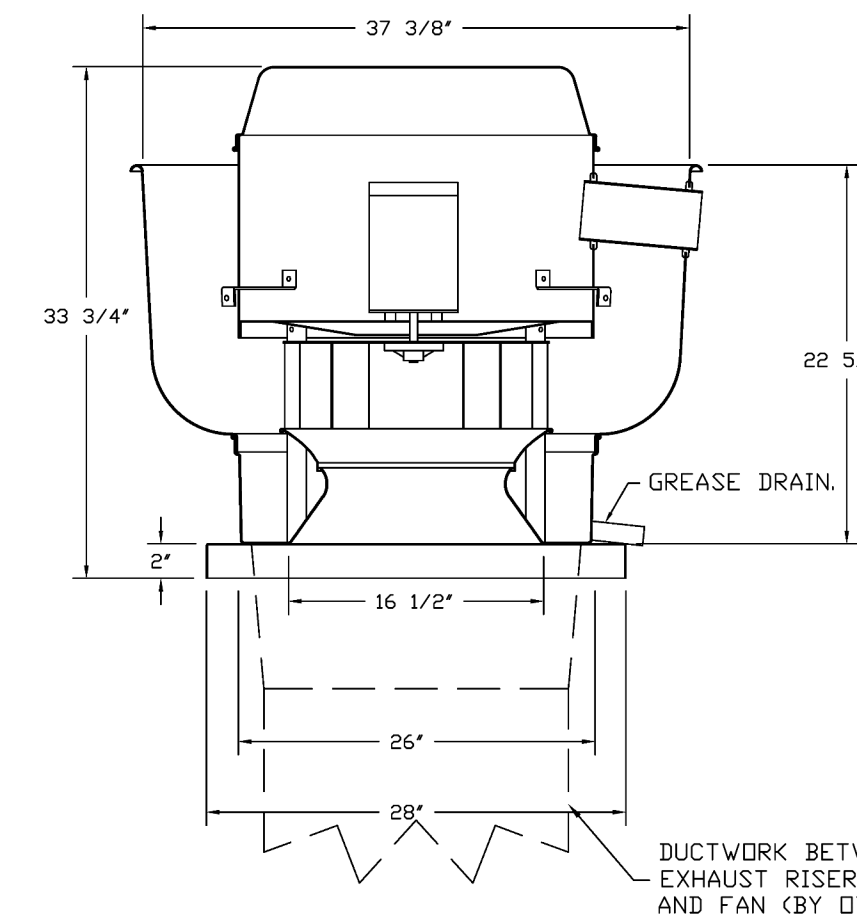
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					
3	MUA - 1					YES		

**CURB ASSEMBLIES**

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500"W X 26.500"L X 20.000"H.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MUA - 1	80 LBS	CURB	31.000"W X 79.000"L X 20.000"H INSULATED.

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

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



**FEATURES:**

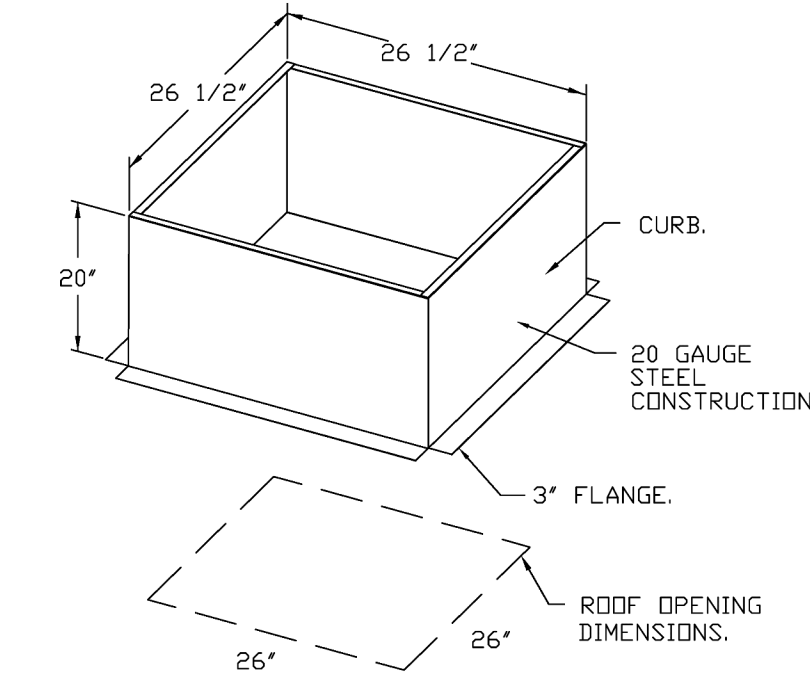
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND UL-C-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

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

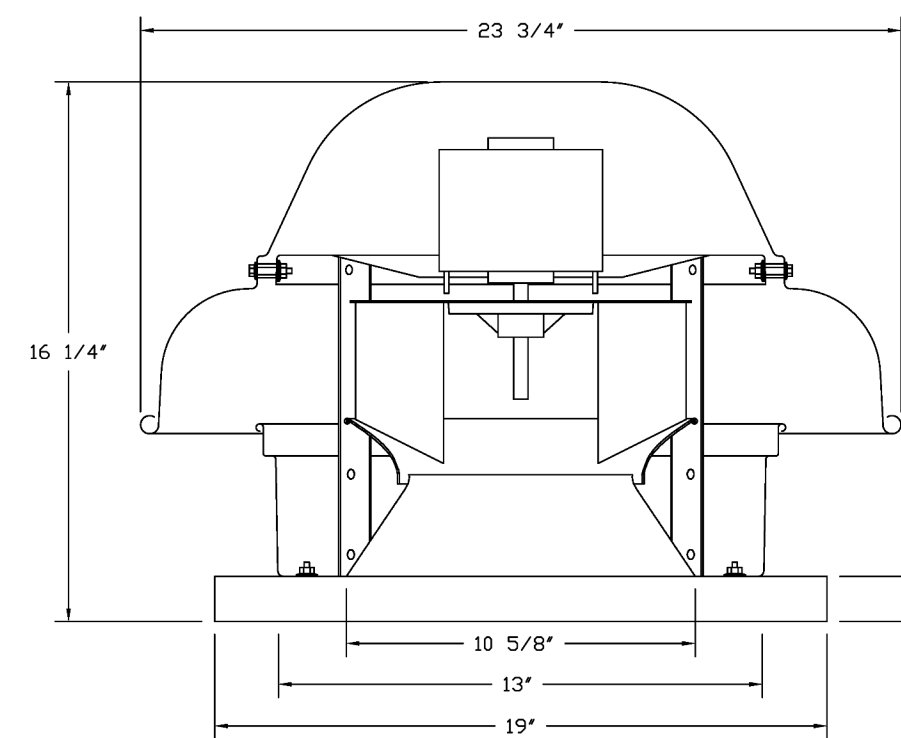
**ABNORMAL FLARE-UP TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS**

- GREASE BDX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- FAN BASE CERAMIC SEAL - DU/DR180HFA
- SHIP LOOSE - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



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



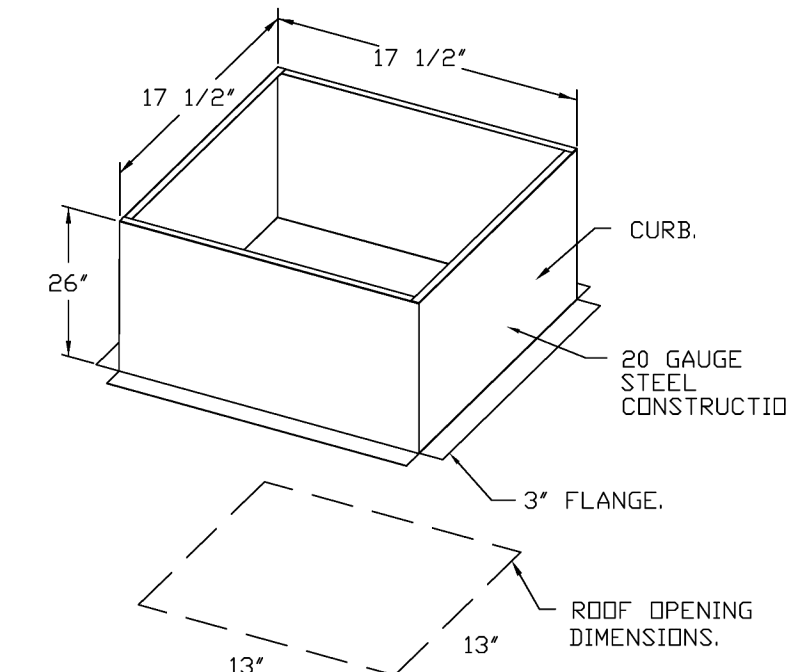
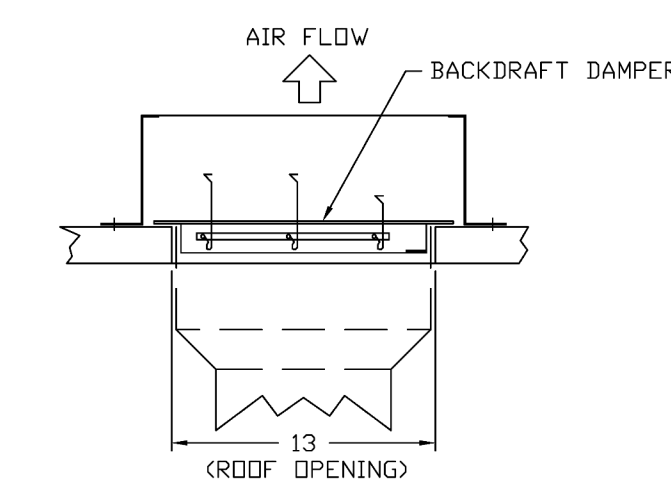
**FEATURES:**

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

**OPTIONS**

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

**BACKDRAFT DAMPER INSTALLATION**



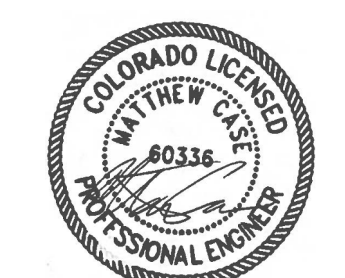
**REVISIONS**

NO	DESCRIPTION	DATE
1		
2		
3		

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 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: 9198759877 EMAIL: reg40@captiveaire.com  
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STORE NO.: 5609  
 PETERSON SPACE FORCE  
 7351 CENTRAL RAIL PT.  
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CHIPOTLE PETERSON SPACE FORCE #5609  
 7351 CENTRAL RAIL PT.,  
 COLORADO SPRINGS, CO, 80903

**DATE:** 4/29/2025

**DWG.#:** 7495825

**DRAWN BY:**

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

**MASTER DRAWING**

**SHEET NO.**

3

Drawn: JW Checked: JW

Project No: CMG 5609

Contents:

HOOD SHEETS

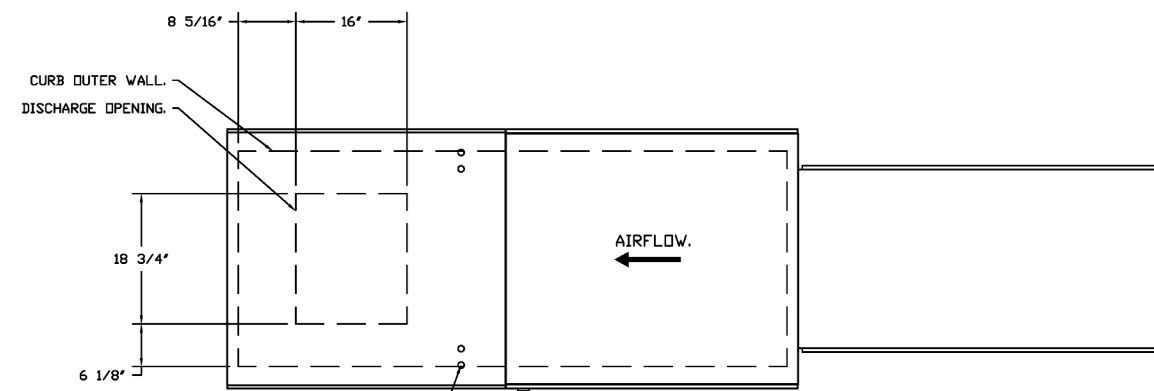


**CASE**  
 Engineering Inc.  
 796 Menu Court  
 St. Louis, MO 63026  
 T 636.349.1800  
 F 636.349.1790

1. FAN AS 40-200-000 - HEATER 00A - 11
2. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 80" HX 20" DIRECT DRIVE FAN
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. PROFILE PLATE CONSTRUCTION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS
5. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 DIRECT FIRED MAKE UP
6. GAS PRESSURE GAUGE - 1/2" BSP, 2 1/2" DIAMETER, 1/4" THREAD SIZE
7. GAS PRESSURE GAUGE - 1/2" BSP, 2 1/2" DIAMETER, 1/4" THREAD SIZE
8. BUTTERFLY MID VALVE OPTION FOR MID SIZE 2 1/2" MID VALVE
9. MATERIALLY INSULATED SERVICE DISCONNECT ASSEMBLY (BLOWER/BLOWER SECTION)
10. ALUMINUM CONSTRUCTION, 1/4" NON FLAME, LOW LEAKAGE, LEAKAGE SECTION INCLUDES
11. SHIP LOOSE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, IF CONNECTION IS PRECEDES
12. SEPARATE SERVICE WIRING PACKAGE FOR MAKE-UP AIR UNITS MUST BE SELECTED WHEN MOUNTING VTS IN PREVIEW PANEL OR WITH 20" PACKING, PROVIDE SEPARATE SERVICE INPUT TO SUPPLY FAN THIS DRY SIGNAL MUST BE RUN BY
13. ELECTION FROM BOV TO MAIN UNIT
14. EXTENDED GAS CONNECTION PROVIDED BY FACTORY WITH GASKET SEAL AND ANTI-VIBRATION BRACKET
15. 2 YEAR PARTS WARRANTY

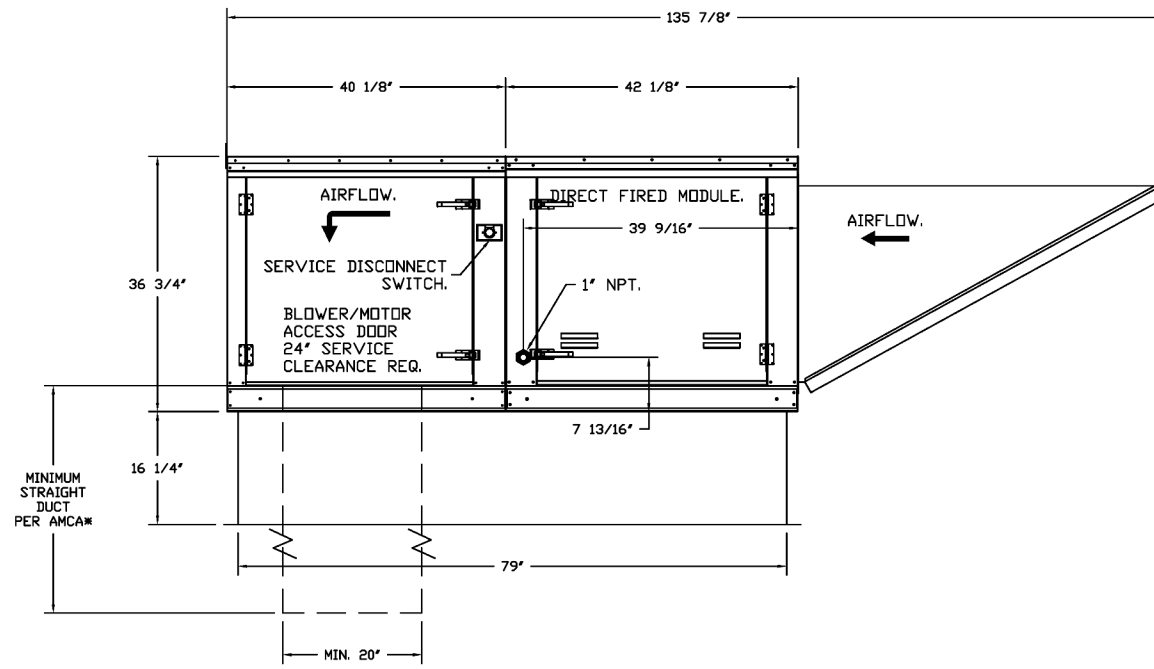
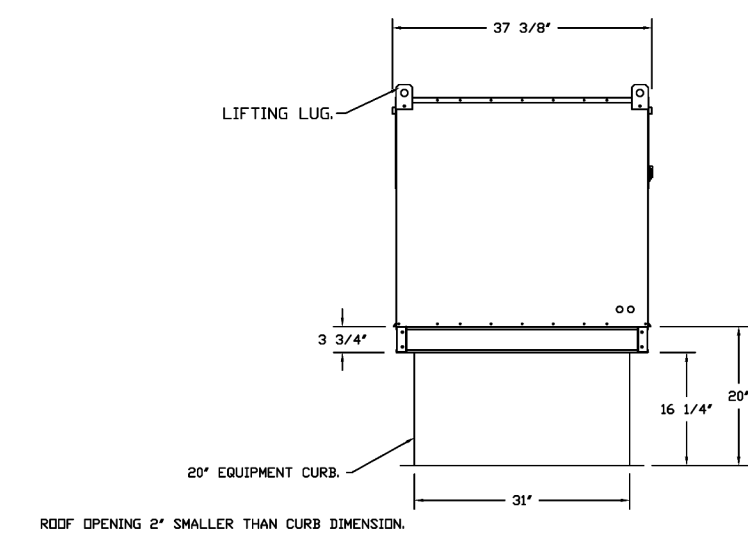
**SUPPLY SIDE HEATER INFORMATION**

NOTE: SUPPLY SIDE MUST BE INSTALLED TO MEET MINIMUM STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED UPSTREAM OF UNIT DISCHARGE AS OUTLINED IN AREA PUBLICATION 200. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE MINIMALLY TURNED BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND TIGHTLY FITTING BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL SIGNIFICANTLY 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"

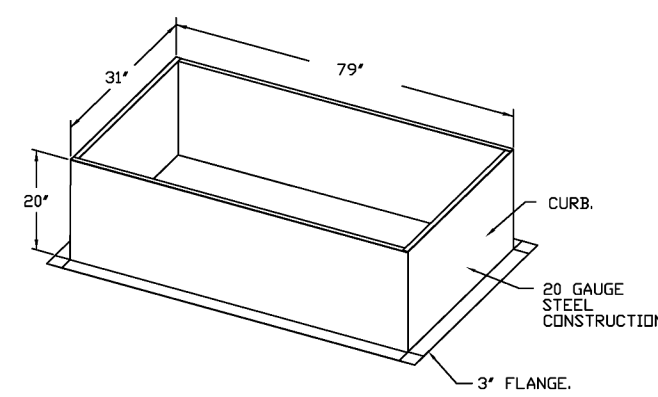


**DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY**

**PROFILE PLATE SPECIFICATIONS**  
 DIRECT FIRED BURNER SHALL HAVE PATENTED (SEE PATENT NO. US6479528) SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNER TO MAINTAIN CLEAN CONSTRUCTION BY LIFTING IF PRODUCE LEVELS TO A MAXIMUM OF 3/8" BY BURNER. CO. AND EXPOSE OF PRODUCE BEHIND THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF FUEL OR TEMPERATURE.  
**APPLICATION:**  
 SPECIALLY DESIGNED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOUNTING OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY METERS OR ACTUATORS TO MECHANICALLY ADJUST THEM WITH THIS FEATURE. ALL DF UNITS ARE DESIGNED FOR ROOMS CONTROL VENTILATION (RCV) REQUIREMENTS.  
**CERTIFICATION:**  
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE NF UNITS ETL LISTING AND COMPLY WITH CONFORMING SAFETY STANDARDS ANSI Z95.4 AND CSA 2.7 (NON-REGULATING IF HEATED) AND ANSI Z95.18 (NON-REGULATING IF HEATED).  
**GENERAL CONSTRUCTION:**  
 PROFILE PLATES SHALL BE FORMED FROM 300 GALVANIZED STEEL.  
 PROFILE PLATES SHALL VARY IN SIZE PER UNIT.  
 PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.  
 DESIGN SHALL INCORPORATE PROPERLY TUNED, PERMANENTLY MOUNTED SPRING HINGES.  
 SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



**OPTIONAL FULL BOTTOM CORNERS**



REVISIONS	
DESCRIPTION	DATE

**CAPTIVE**  
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CHIPOTLE PETERSON SPACE FORCE #5609  
 7351 CENTRAL RAIL PT.,  
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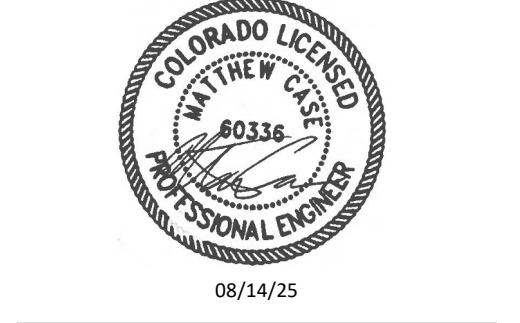
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**MASTER DRAWING**

**SHEET NO.**  
 4

**CASE**  
 Engineering Inc.  
 796 Meigs Court  
 St. Louis, MO 63026  
 T 636.349.1800  
 F 636.349.1730



**LINGLE DESIGN GROUP INC**  
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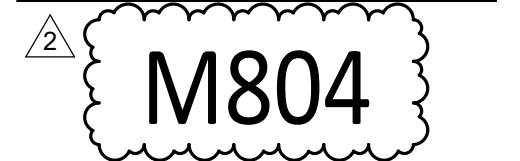
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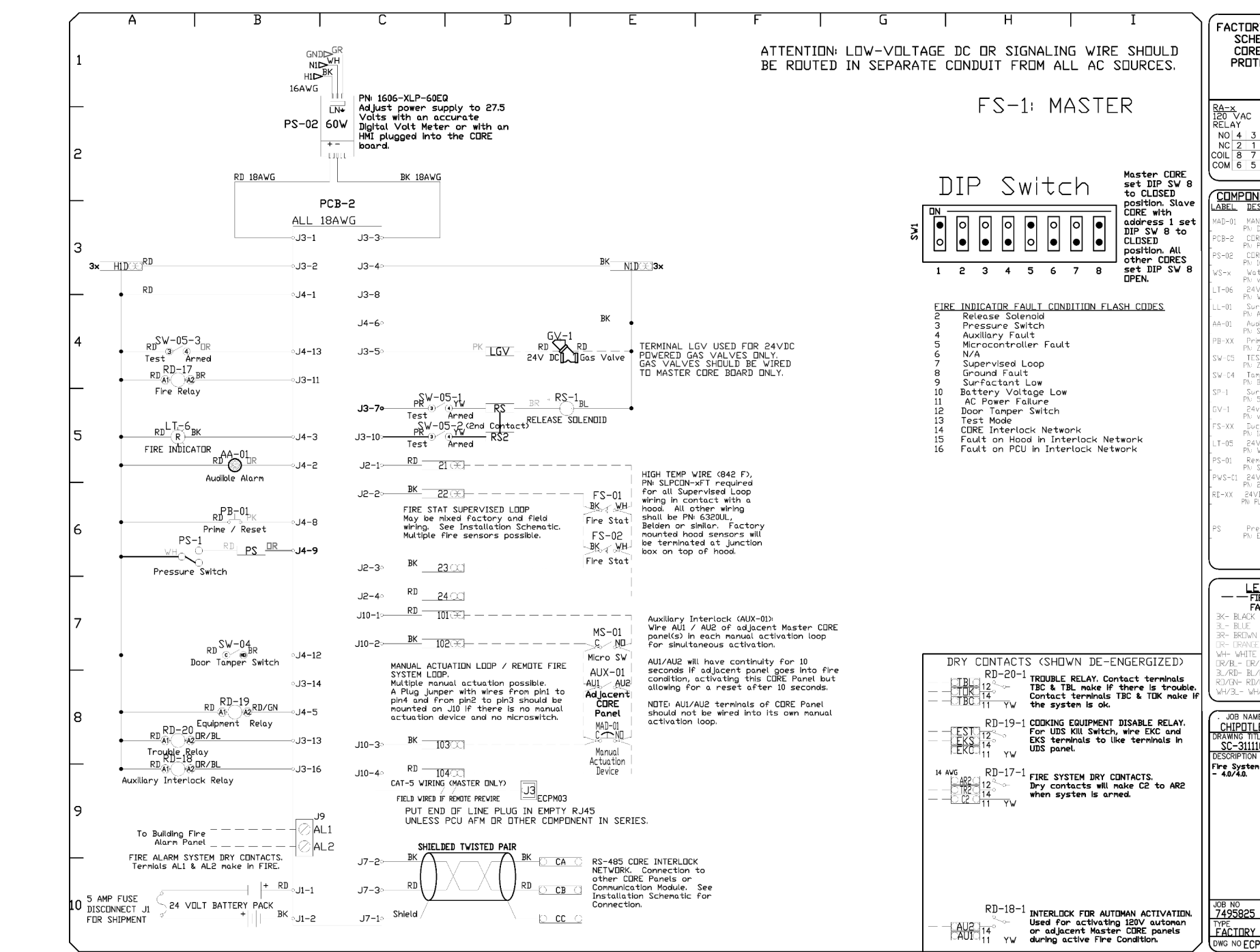
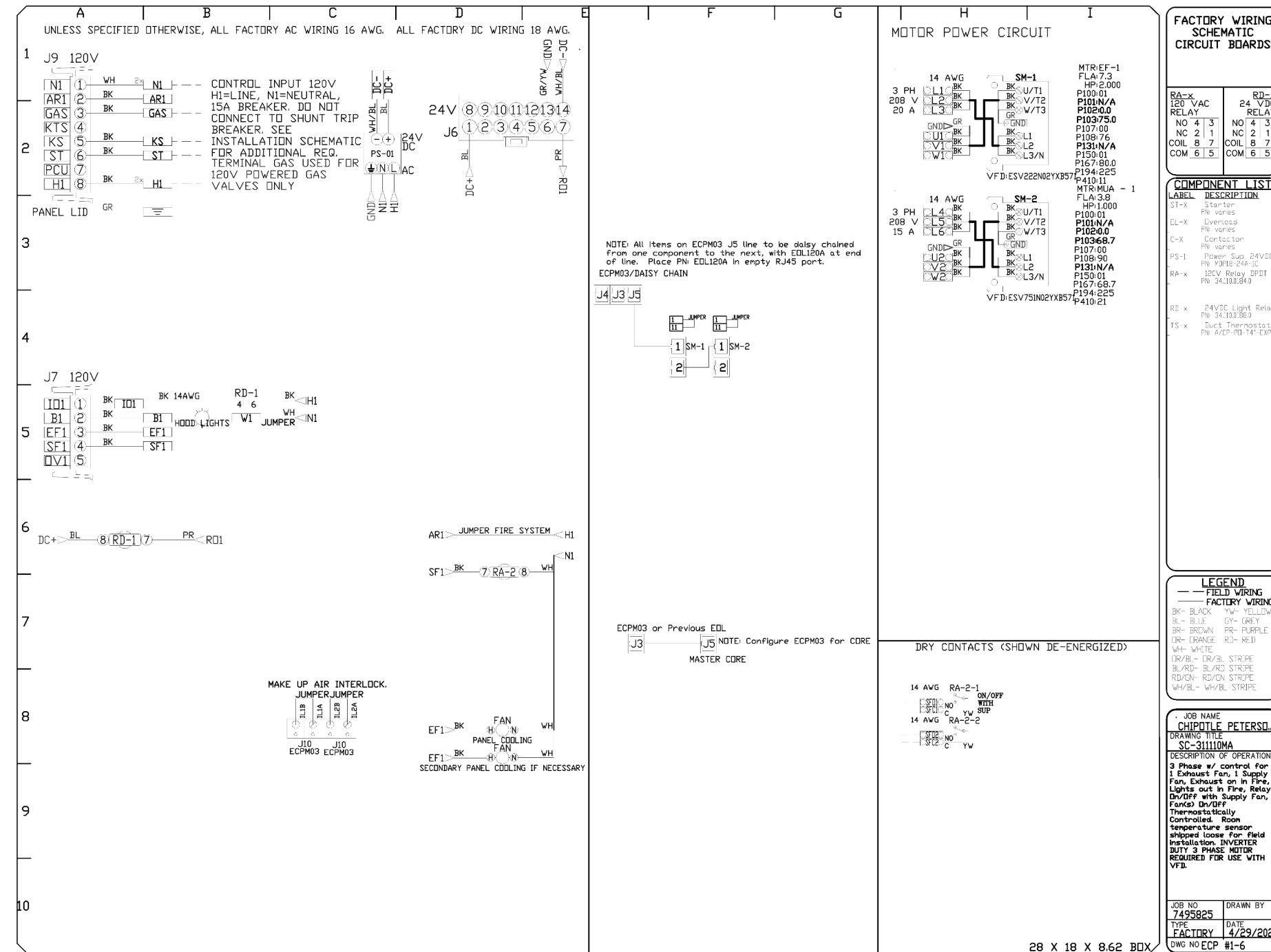
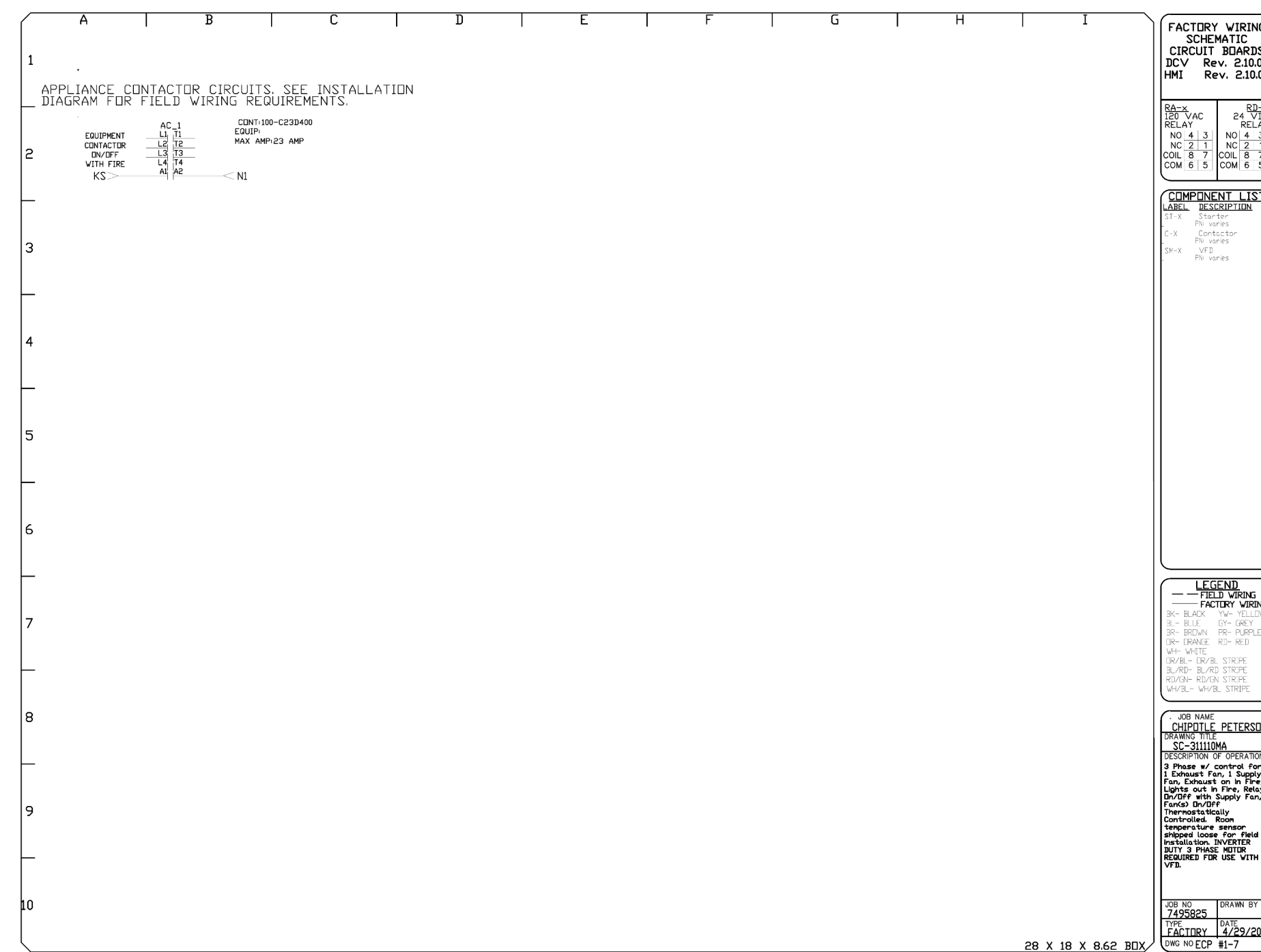
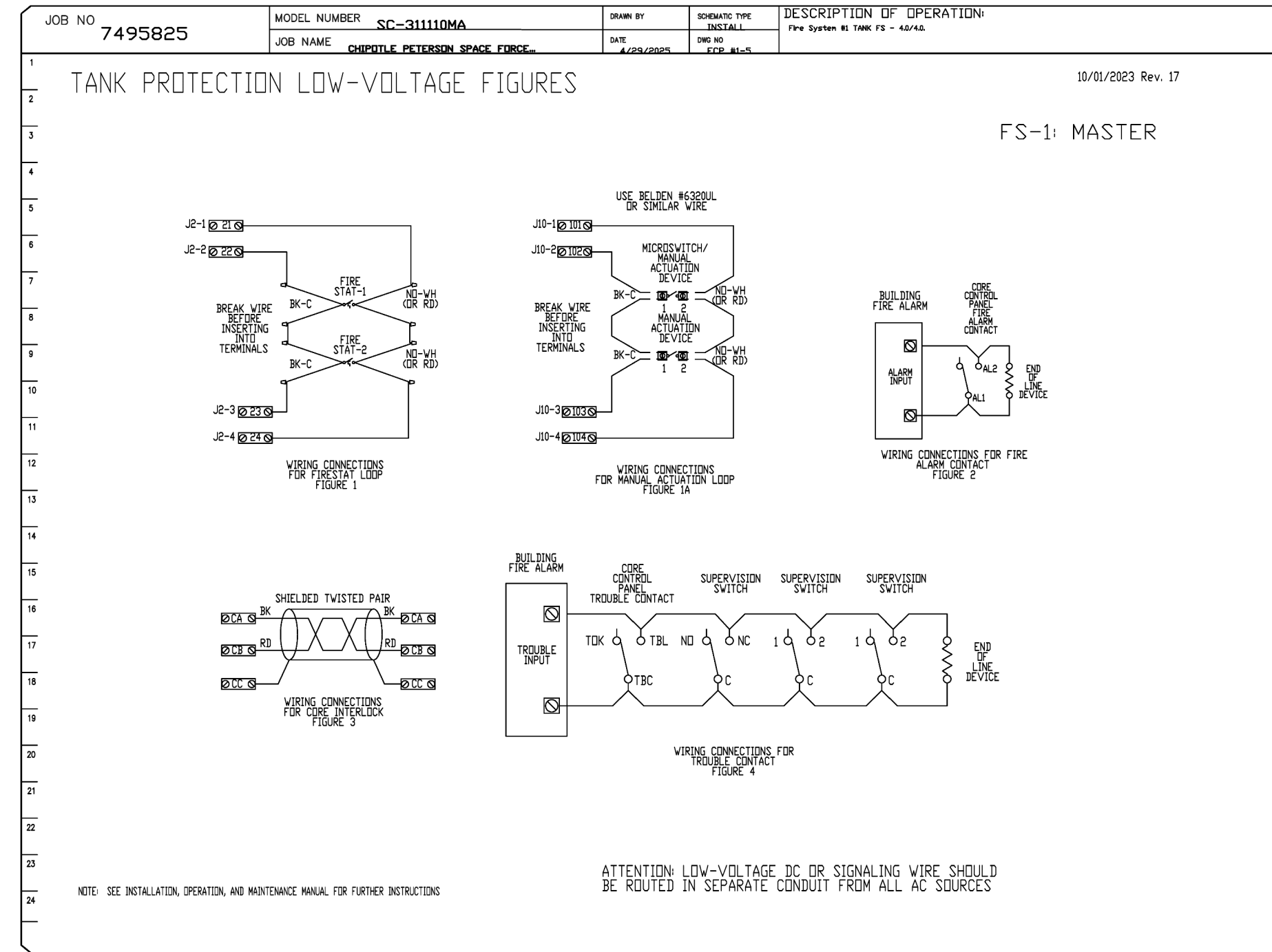
Project No.  
 CMG 5609

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 HOOD SHEETS









**REVISIONS**

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1		
2		

**CAPTIVE**

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 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: 919/8750577 EMAIL: rsg40@captiveware.com

DATE: 4/29/2025  
 DWG.#: 7495825  
 DRAWN BY:  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO. 7

CHIPOTLE PETERSON SPACE FORCE #5609  
 7351 CENTRAL RAIL PT.,  
 COLORADO SPRINGS, CO, 80903

STORE NO.: 5609  
 PETERSON SPACE FORCE  
 7351 CENTRAL RAIL PT.  
 COLORADO SPRINGS, CO 80903



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08/14/25

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Contents:	

HOOD SHEETS

M807

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

**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#7495825**

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-ACPSP-F	CAPTIVEAIRE	12' 9"	600 DEG	I	HEAVY	200	2550	10"	24"	4"	2550	1530	-0.966"	2295	696	430 SS WHERE EXPOSED	ALONE	ALONE

**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM	ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE					
1		CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1283 LBS	

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT. INSULATION FOR BACK OF HOOD. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. FULL DIMENSION HANGING BRACKET - FRONT.

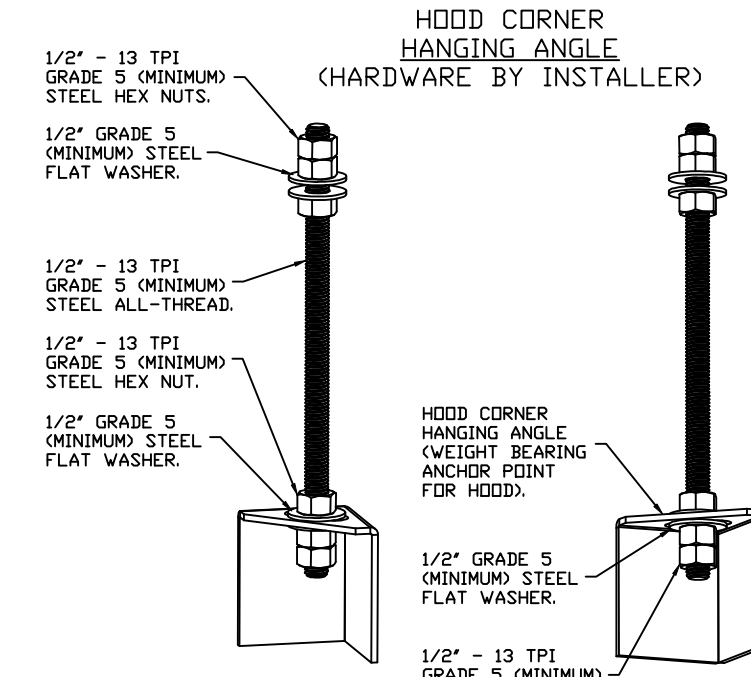
**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	165'	26'	6'	MUA	12"	28"		765	0.189"
						MUA	12"	28"		765	0.189"
						MUA	12"	28"		765	0.189"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"

**CLEARANCE TO COMBUSTIBLES**

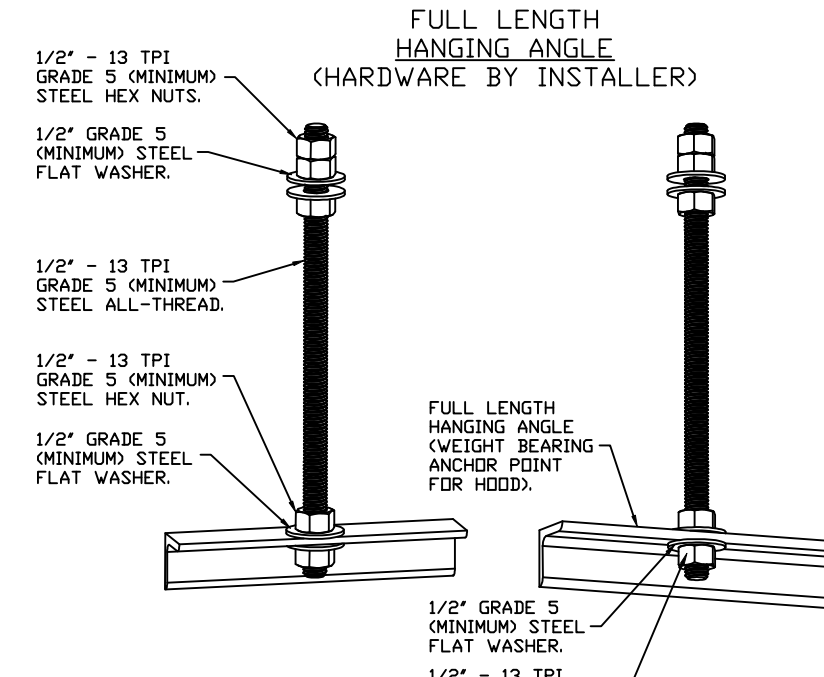
HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"

- \*0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION 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.

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

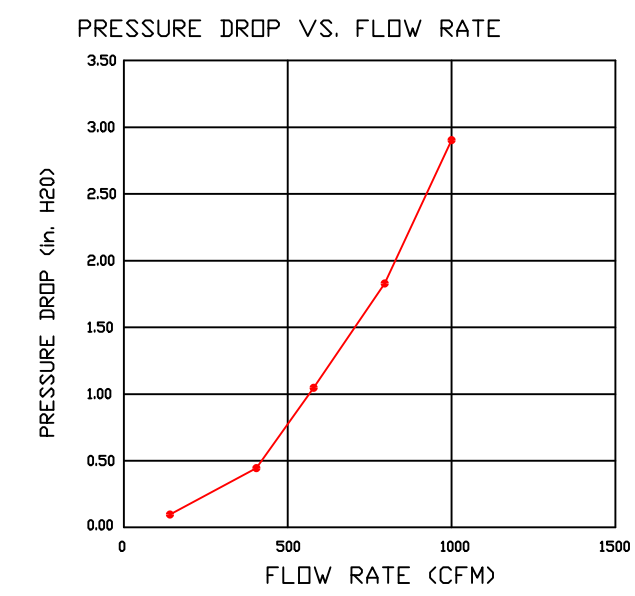
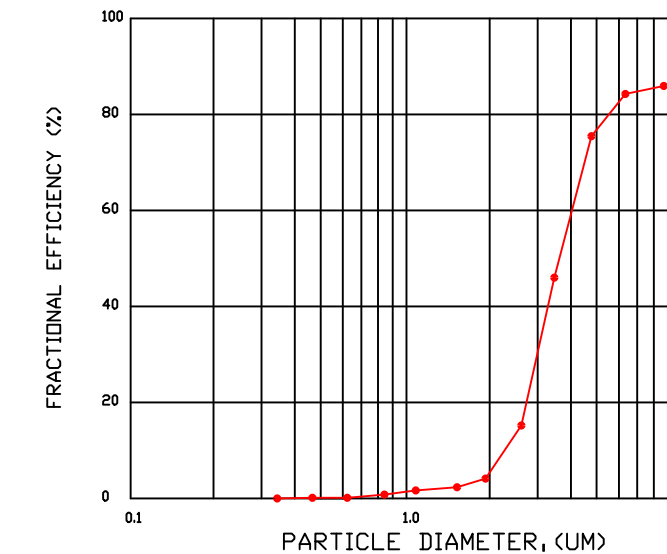
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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

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

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

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. EFFICIENCY VS. PARTICLE DIAMETER



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96.  
NSF STANDARD #2.  
UL STANDARD #1046.  
INT. MECH. CODE (IMC).  
ULC-S649.



**SHOP DRAWING REVIEW**

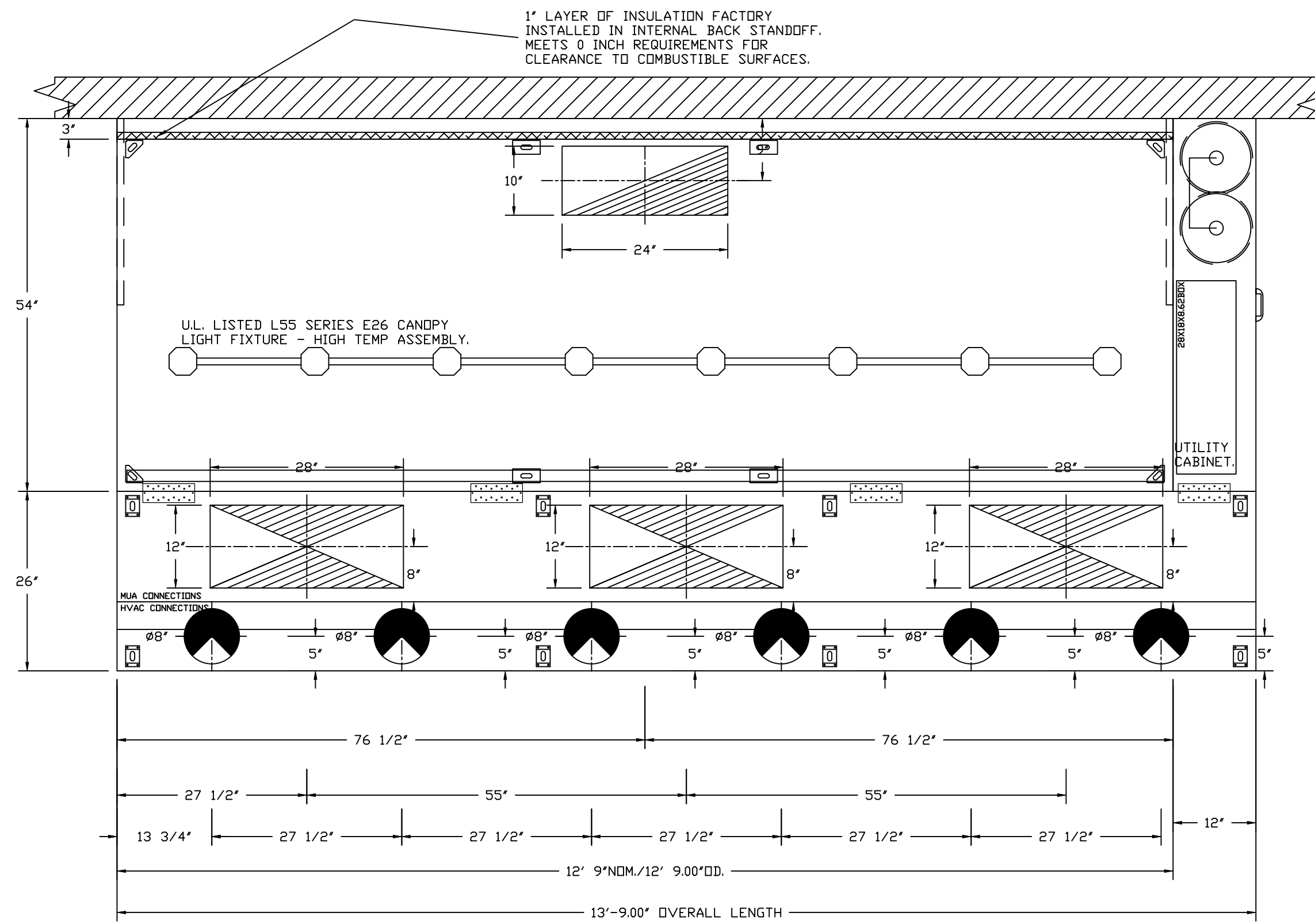
- NO EXCEPTIONS TAKEN
- MAKE CORRECTIONS NOTED
- REVISE AND RESUBMIT
- REJECTED

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS AND SPECIFICATIONS. NO RESPONSIBILITY IS ASSUMED BY THIS ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTNESS OF QUANTITIES, DIMENSIONS AND DETAILS



DATE: 04/30/2025

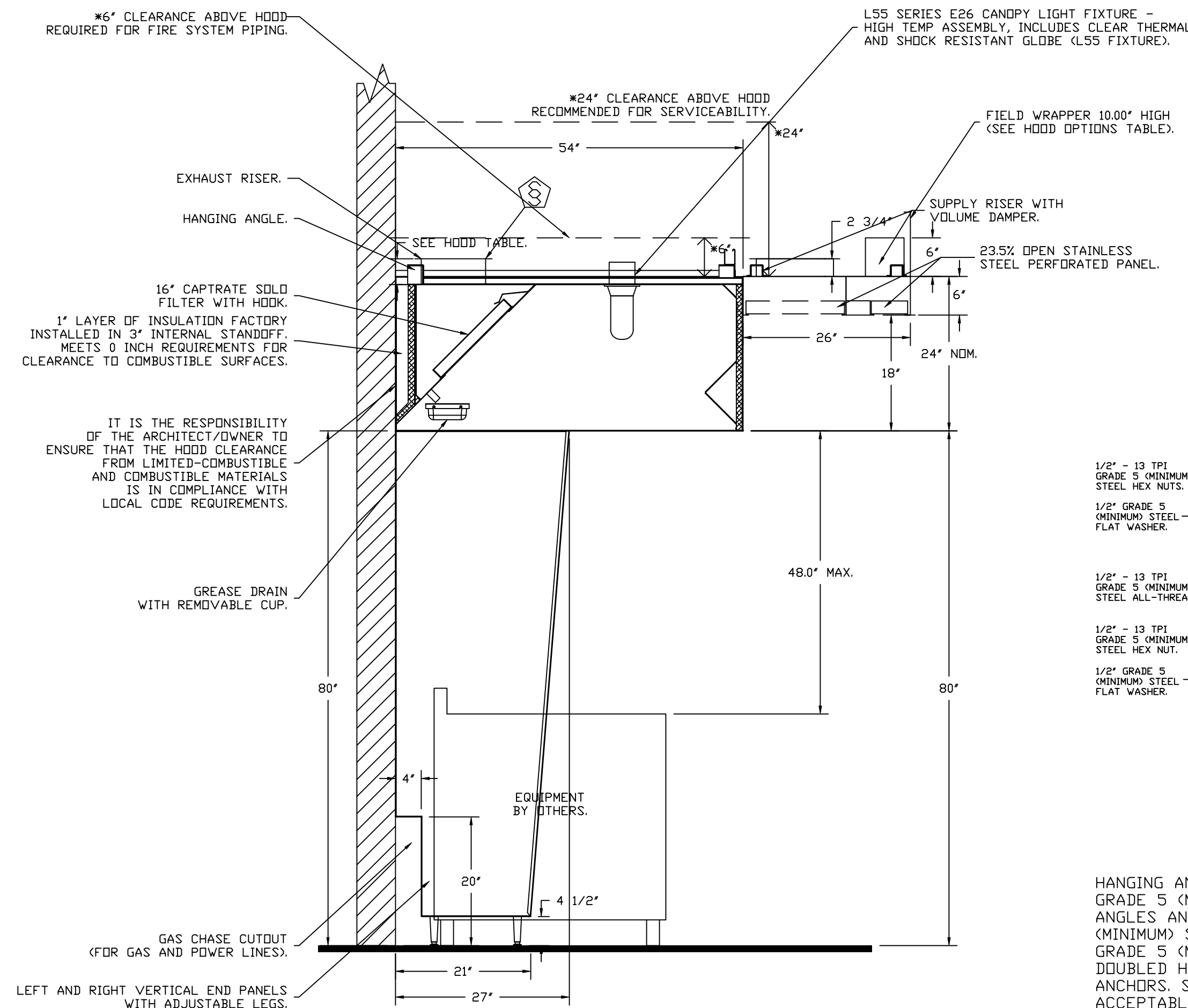
SEE PAGE 3.



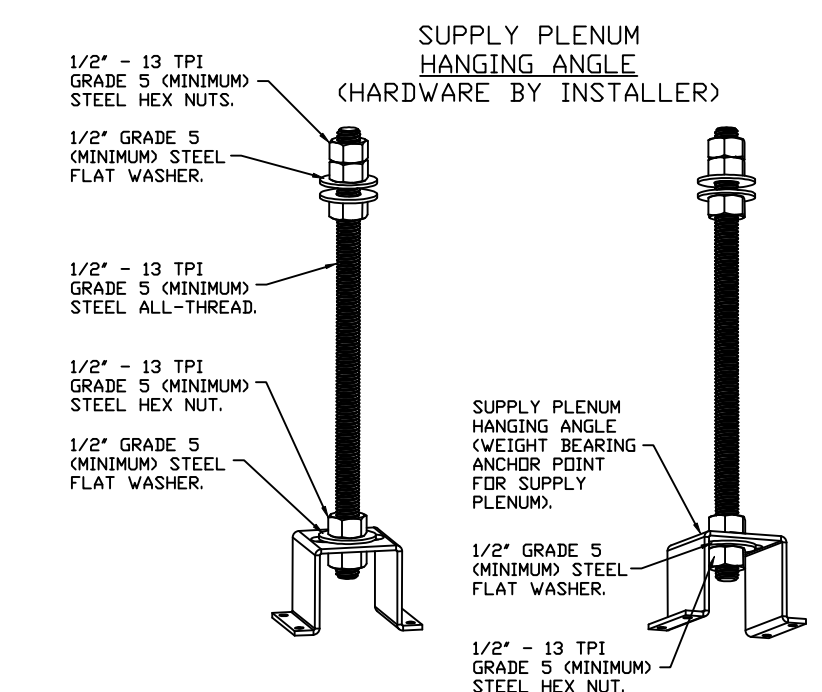
**PLAN VIEW - HOOD #1**

12' 9.00" LONG 5424ND-2-ACPSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



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



**ASSEMBLY INSTRUCTIONS**

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

**REVISIONS**

DESCRIPTION	DATE:

**CAPTIVEAIRE**

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

CHIPOTLE PETERSON SPACE FORCE #5609  
7351 CENTRAL RAIL PT,  
COLORADO SPRINGS, CO, 80903

DATE: 4/29/2025  
DWG.#: 7495825  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

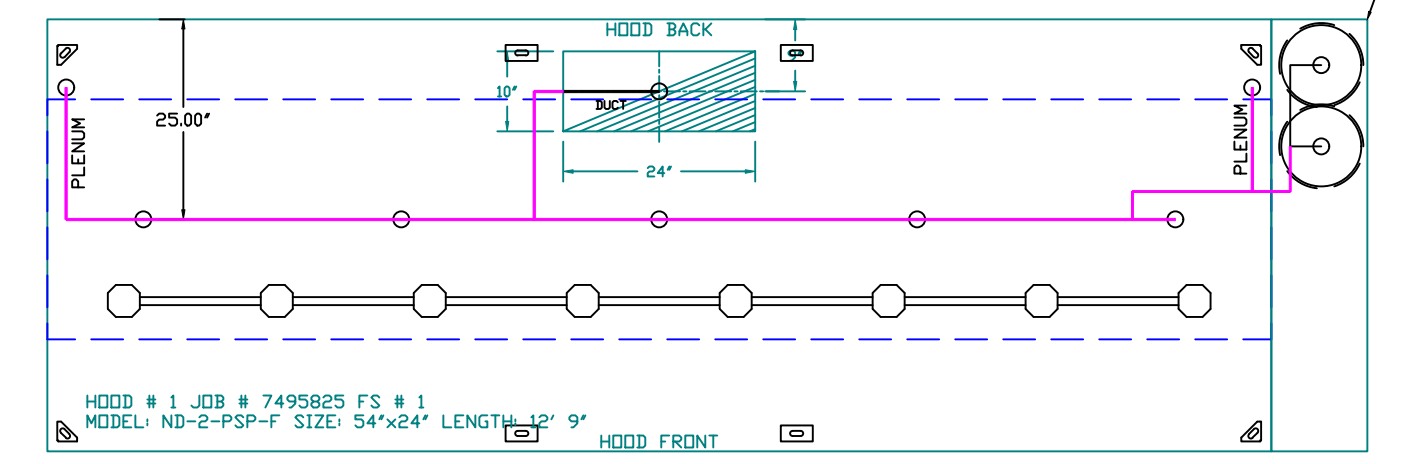
**SHEET NO.**  
1

**FIRE SYSTEM INFORMATION - JOB#7495825**

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

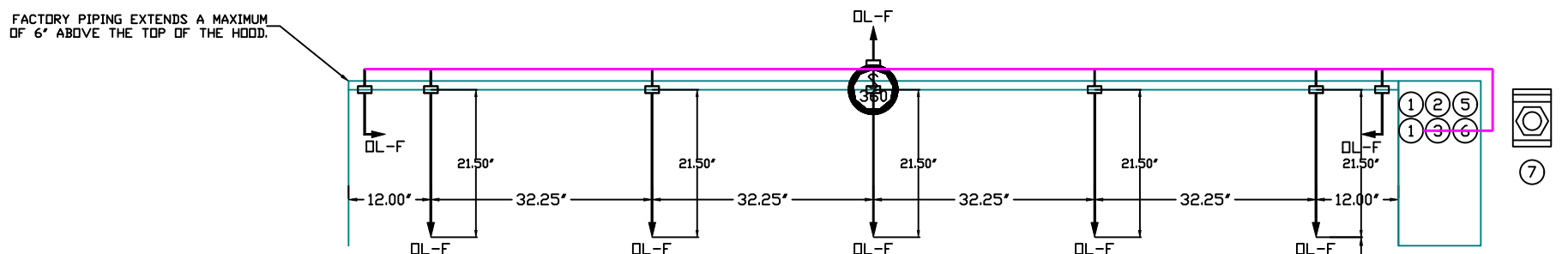
  

GAS VALVE(S)			
SYSTEM NO	TAG	TYPE	SUPPLIED BY
1		SC ELECTRICAL	CAPTIVEAIR SYSTEMS



SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.

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



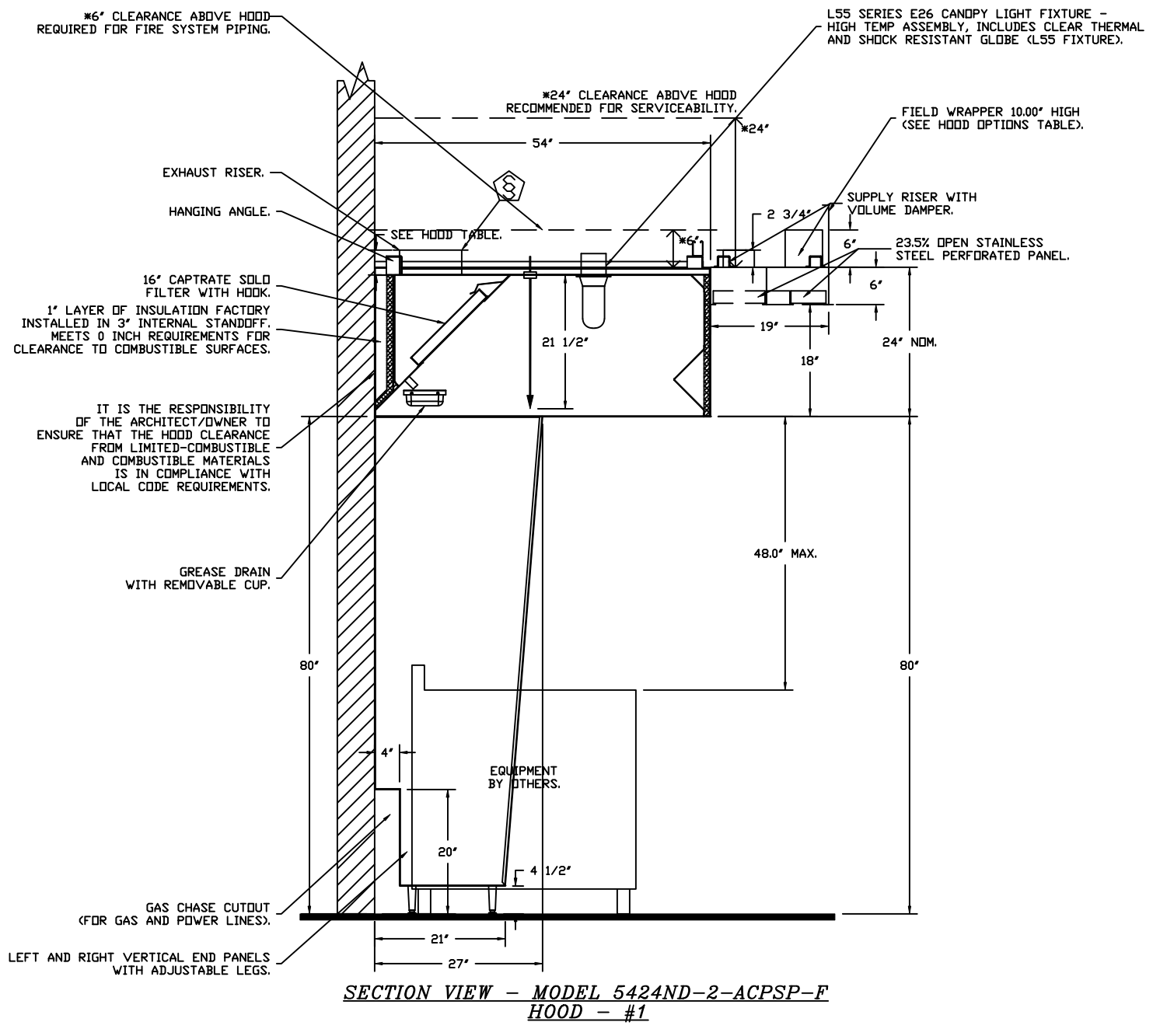
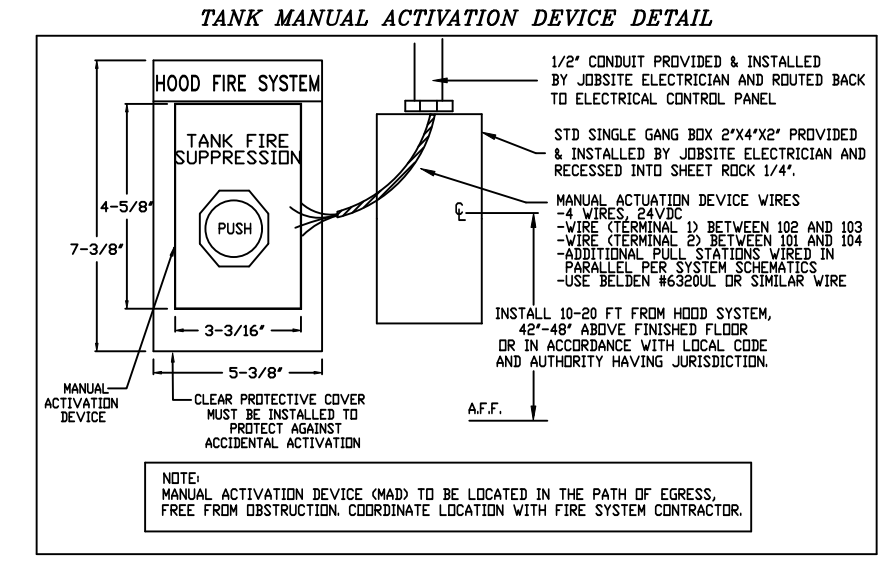
SYSTEM SIZE: TANK-SP-2 DESIGN FP: 32, MAXIMUM FP: 40.  
 HOOD # 1 12' 9.00" LONG x 54" WIDE x 24" HIGH.  
 RISER # 1 SIZE: 10" x 24".  
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

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

**LEGEND - FIRE CABINET TANK SYSTEM**

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST. ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES. ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST.  
 EXCLUDES: UNION LABOR & PREVAILING WAGE LABOR & WAGES WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

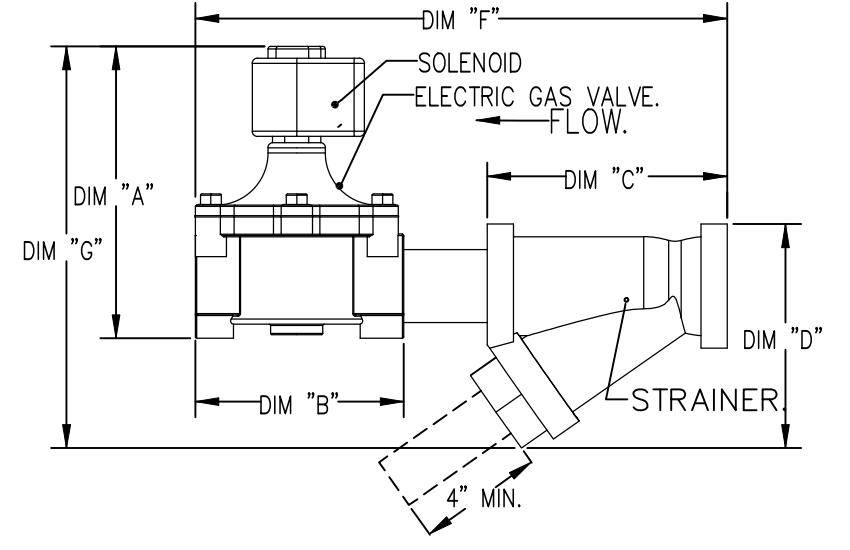


GAS VALVES AND STRAINERS																	
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS					
			MIN. INLET PRESSURE (0 IN.W.C.)	MAX. INLET PRESSURE (5 PSI (138 IN.W.C.))	MAX. FLOW AT 1 IN.W.C. DROP NATURAL GAS (BTU/HR)	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"		DIM "G"	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT		
GAS VALVE FOR FS#1	ELECTRICAL	1-1/2"	24 VDC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,406,000 BTU/HR	1,581,219 BTU/HR	7-5/8"	6-3/8"	5-3/4"	6-3/16"	14-1/8"	12-5/16"	HORIZONTAL	8214276-24VDC	4417K87	(SC)E0VC1-1/2-24

**ELECTRIC GAS VALVES ONLY-SOLENOID OPERATION**  
 3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL. PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS. A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

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

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



REVISIONS	
DESCRIPTION	DATE

www.captiveairs.com  
 Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 975 - 0420 FAX: 9198750577 EMAIL: reg40@captiveaire.com

CHIPOTLE PETERSON SPACE FORCE #5609  
 7351 CENTRAL RAIL PT,  
 COLORADO SPRINGS, CO, 80903

DATE: 4/29/2025  
 DWG.#: 7495825  
 DRAWN BY:  
 SCALE: 1/2" = 1'-0"  
 MASTER DRAWING

SHEET NO. 2

**EXHAUST FAN INFORMATION - JOB#7495825**

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	DU180HFA	CAPTIVEAIRE	2550	1.450	1322	TEFC, PREMIUM	2.000	1.2830	3	208	7.3	589 FPM	200	20.4
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1429	TEAD-ECM	0.250	0.1040	1	115	2.9		50	7.7

**MUA FAN INFORMATION - JOB#7495825**

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	MUA - 1	1	A2-D.250-20D	20MF-2-MDD	A2-D.250	2000	2295	0.500	1093	ODP, PREMIUM	1.000	0.5730	3	208	3.8	4.8A	15A	664	8.1

**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	MUA - 1	155409	142976	73°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

Provide ductwork for MAU. Ductwork size needs to be 20"x16".

**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	FAN BASE CERAMIC SEAL - DU/DR180HFA - SHIP LOOSE - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
3	MUA - 1	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500 CFM
		1	SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SHIP LOOSE GAS STRAINER 1"
		1	FREEZESTAT
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
1	2 YEAR PARTS WARRANTY		
1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		

**FAN ACCESSORIES**

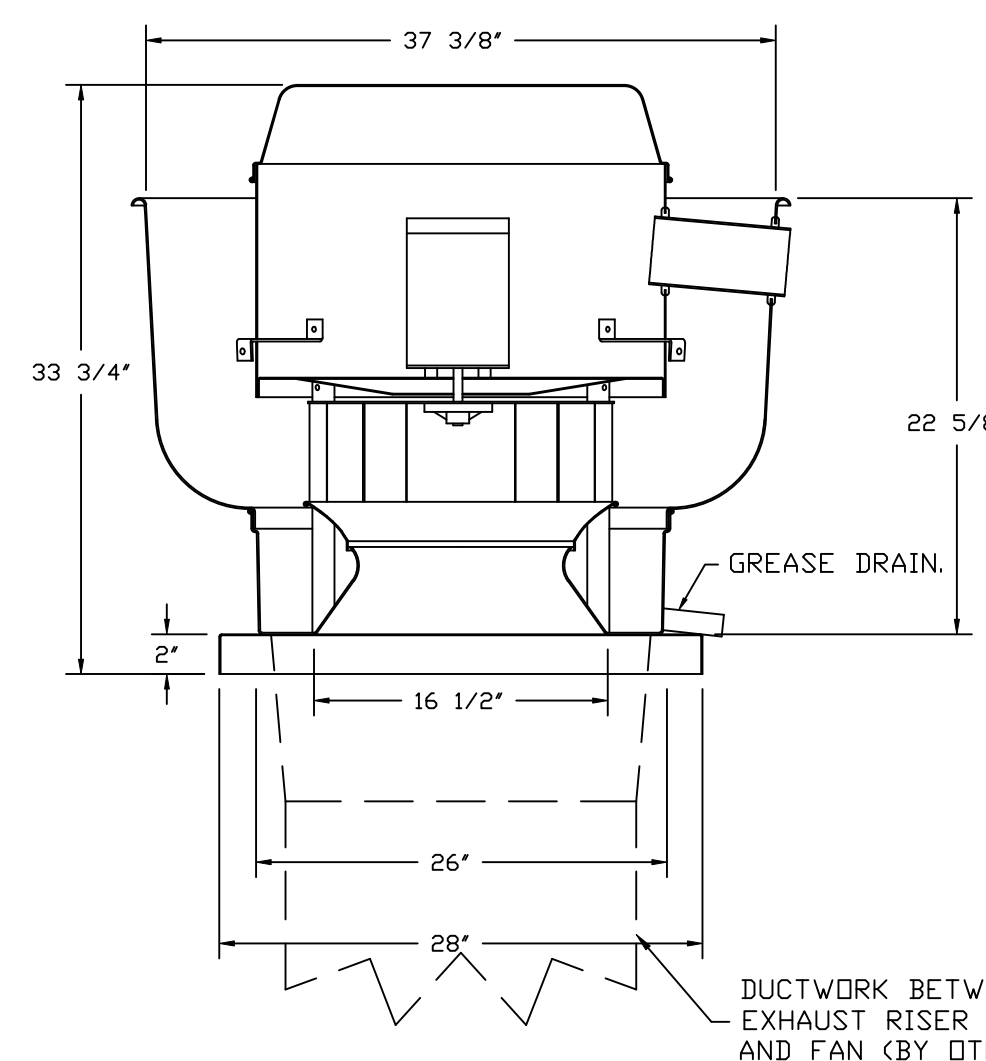
FAN UNIT NO	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	EF-1	YES							
2	EF-2		YES						
3	MUA - 1						YES		

**CURB ASSEMBLIES**

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500"W X 26.500"L X 20.000"H.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MUA - 1	80 LBS	CURB	31.000"W X 79.000"L X 20.000"H INSULATED.

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

FAN #1 DU180HFA - EXHAUST FAN (EF-1)



**FEATURES:**

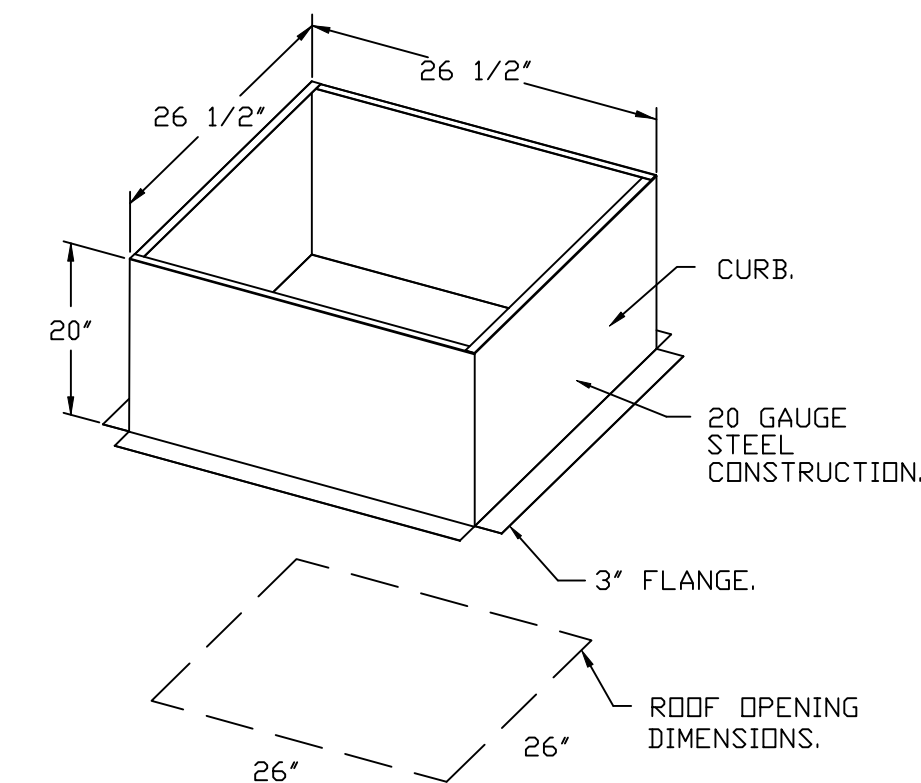
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

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

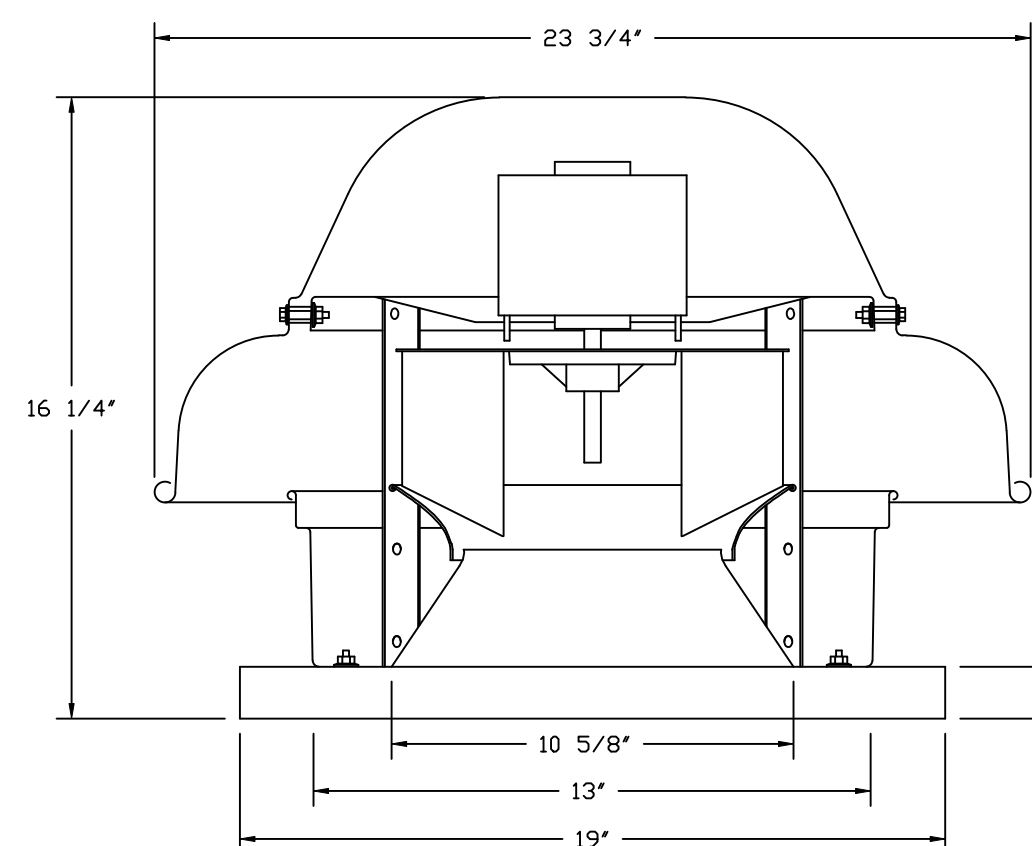
**ABNORMAL FLARE-UP TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS**

- GREASE BOX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- FAN BASE CERAMIC SEAL - DU/DR180HFA
- SHIP LOOSE - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



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



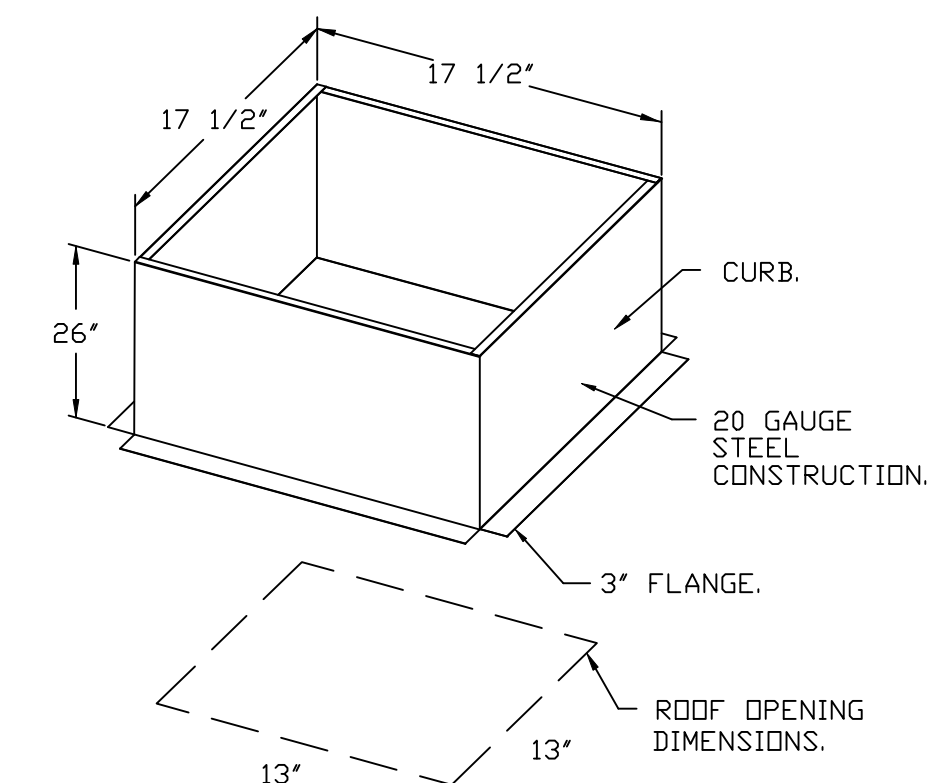
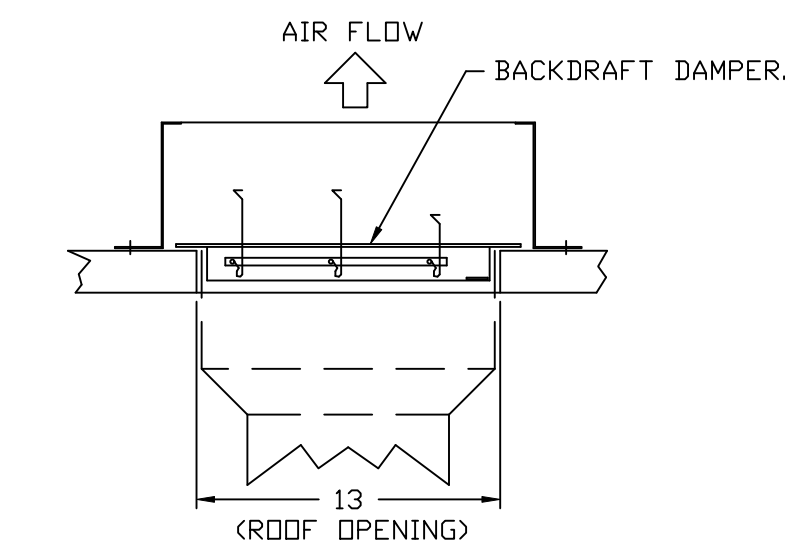
**FEATURES:**

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

**OPTIONS**

- I 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

**BACKDRAFT DAMPER INSTALLATION**



**REVISIONS**

DESCRIPTION	DATE:

**CAPTIVEAIRE**  
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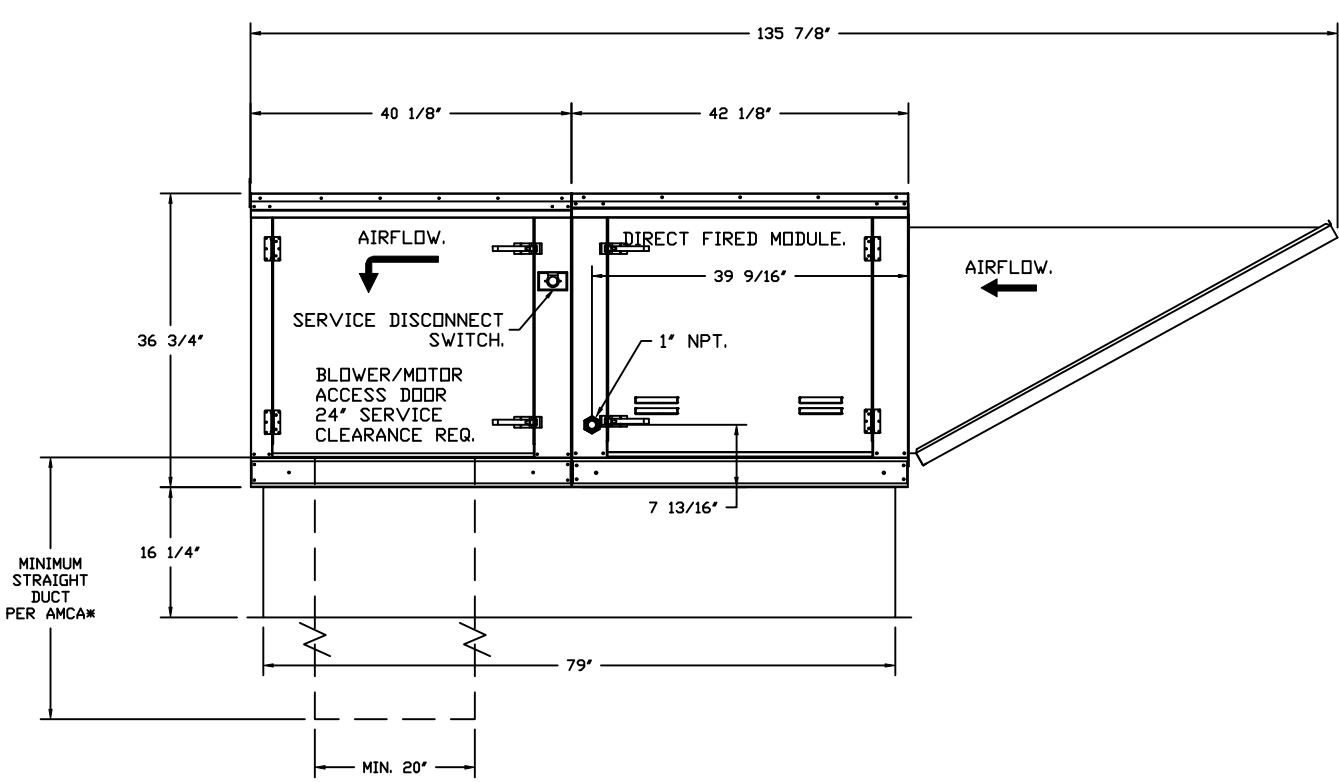
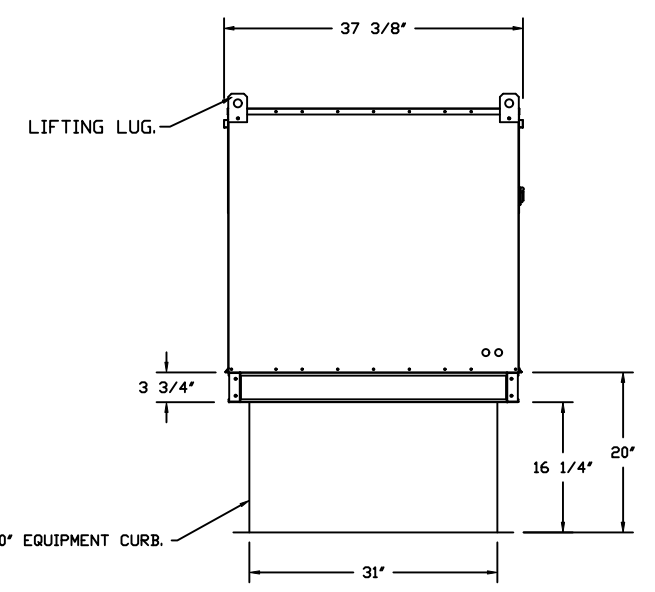
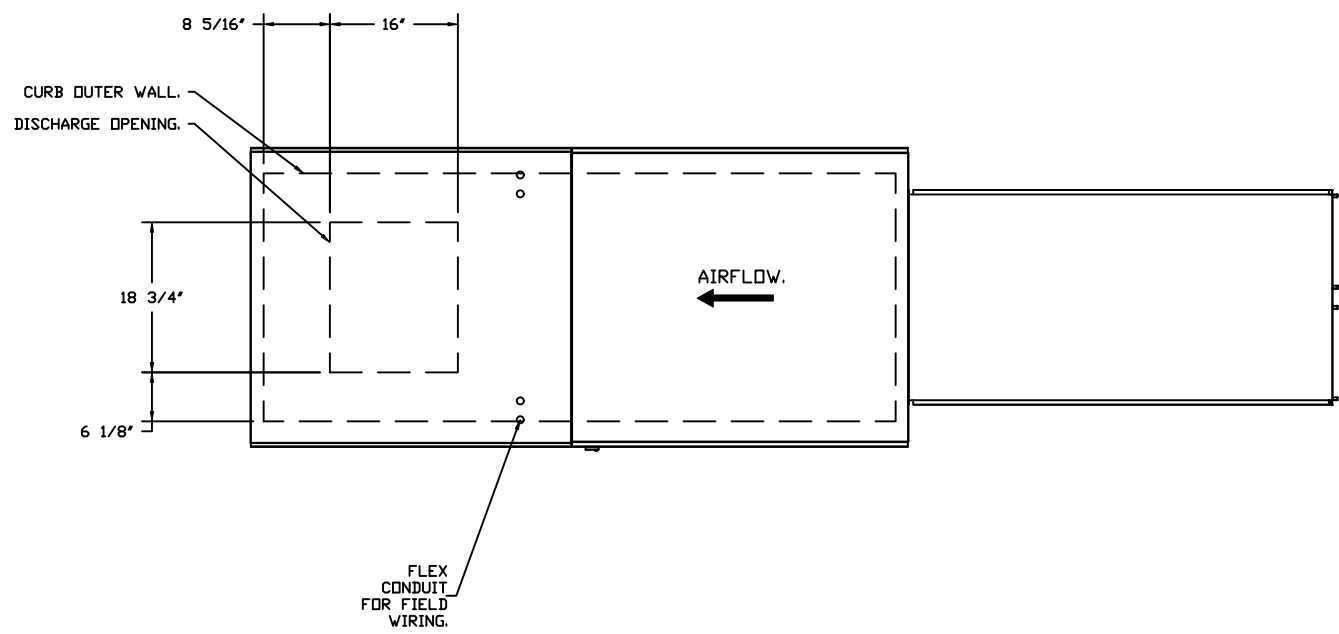
**SHEET NO.**  
3

- FAN #3 42-3250-200 - HEATER (HMA - 1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
  2. INTAKE HEAD WITH EF FILTER.
  3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
  5. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 DIRECT DRIVE UNIT.
  6. GAS PRESSURE GAUGE, 0-25" W.C. DIAMETER, 1/4" THREAD SIZE.
  7. GAS PRESSURE GAUGE, -5 TO +15 INCHES W.C. 2 1/2" DIAMETER, 1/4" THREAD SIZE.
  8. BUTTERFLY HEAD VALVE OPTION FOR HEAD SIZE 2 1/4" HEAD VALVES.
  9. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LITESS ACTUATOR INCLUDED.
  10. SHIP LOOSE GAS STRAINER TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 1" CONNECTION.
  11. FREEZE-STAT.
  12. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRED PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO HMA SWITCH.
  13. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  14. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.
  15. 2 YEAR PARTS WARRANTY.

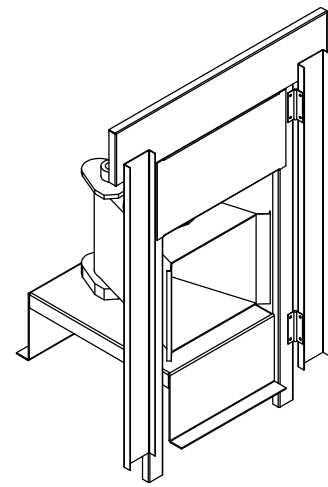
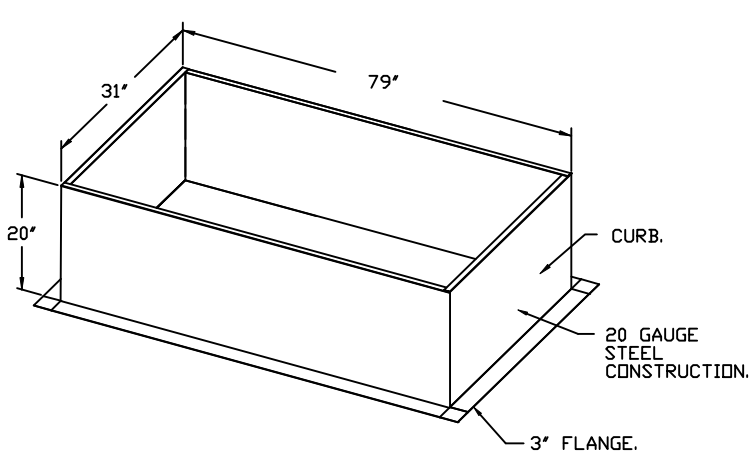
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET IMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL 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 20" X 20".

SUPPLY SIDE HEATER INFORMATION

WINTER TEMPERATURE = 7°F. TEMP RISE = 73°F.  
 BTUH CALCULATED OFF ACTUAL AIR DENSITY.  
 OUTPUT BTUH AT ALTITUDE OF 80 FT. = 177326.  
 INPUT BTUH AT ALTITUDE OF 80 FT. = 159746.  
 OUTPUT BTUH AT ALTITUDE OF 5838 FT. = 142976.  
 INPUT BTUH AT ALTITUDE OF 5838 FT. = 125408.



OPTIONS  
 - FULL BOTTOM CORNERS.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

**DIRECT FIRED PROFILE PLATE SPECIFICATIONS:**  
**DESCRIPTION:**  
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629533B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 50PPM OF CARBON MONOXIDE (CO), AND 0.50PPM OF NITROGEN DIOXIDE (NO2/DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.  
**APPLICATION:**  
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.  
**CERTIFICATIONS:**  
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).  
**GENERAL CONSTRUCTION:**  
 -PROFILE PLATES SHALL BE FORMED FROM 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.  
 -DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.  
 -SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

**REVISIONS**

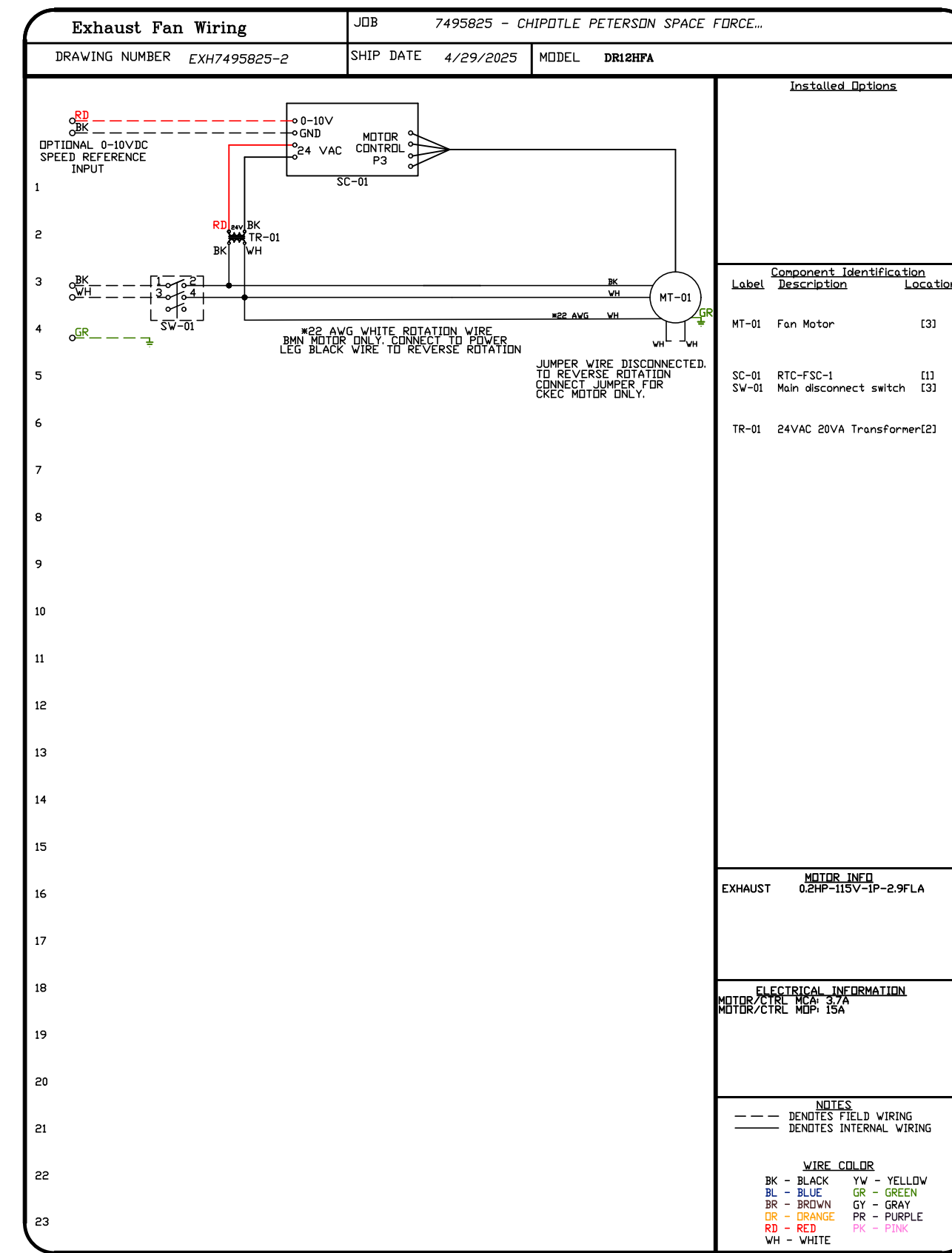
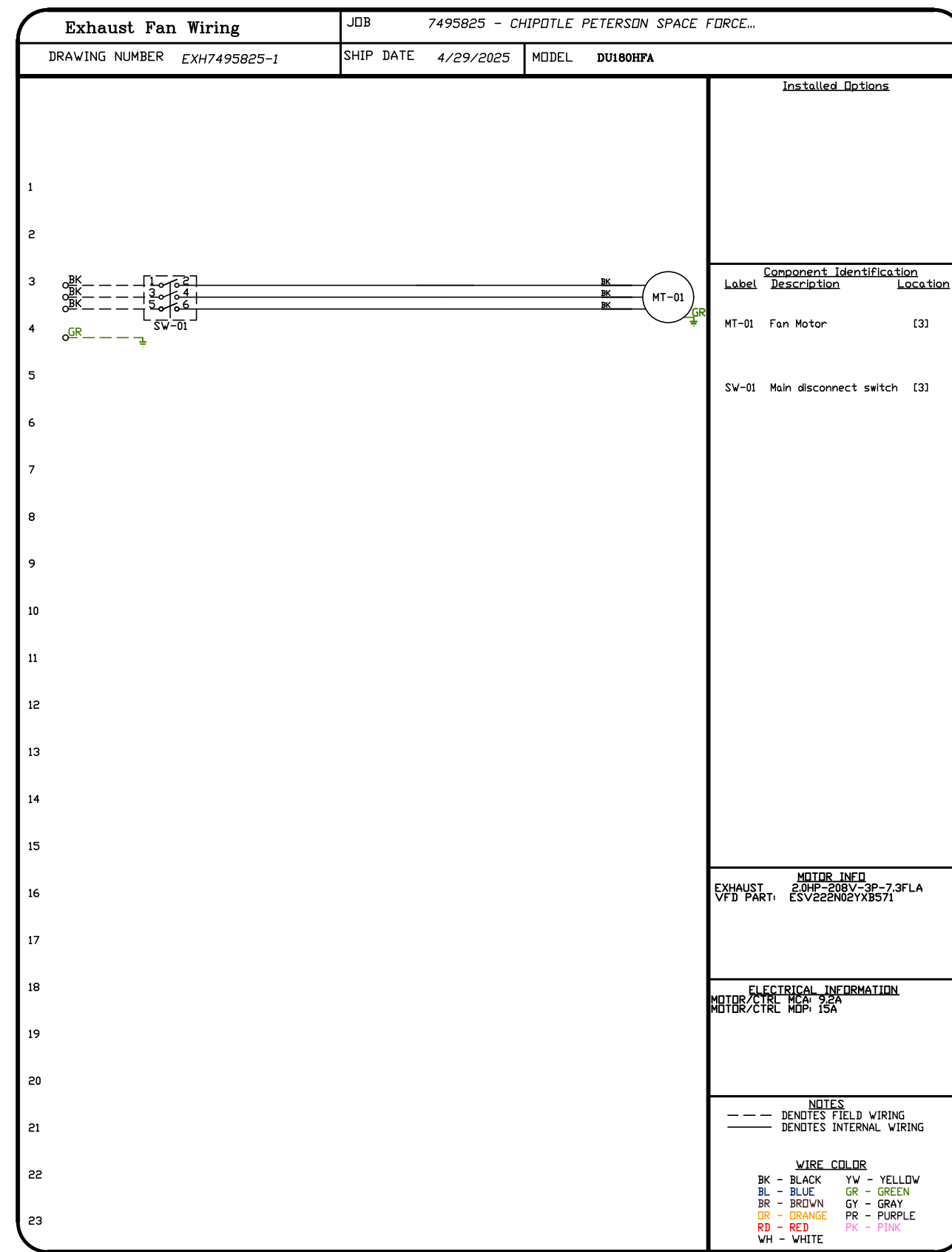
REVISIONS	DESCRIPTION	DATE:
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**CAPTIVE**  
 Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 975 - 0420 FAX: 9198750577 EMAIL: reg40@captiveware.com

CHIPOTLE PETERSON SPACE FORCE #5609  
 7351 CENTRAL RAIL PT,  
 COLORADO SPRINGS, CO, 80903

DATE: 4/29/2025  
 DWG.#: 7495825  
 DRAWN BY:  
 SCALE: 1/2" = 1'-0"  
 MASTER DRAWING

SHEET NO.  
 4

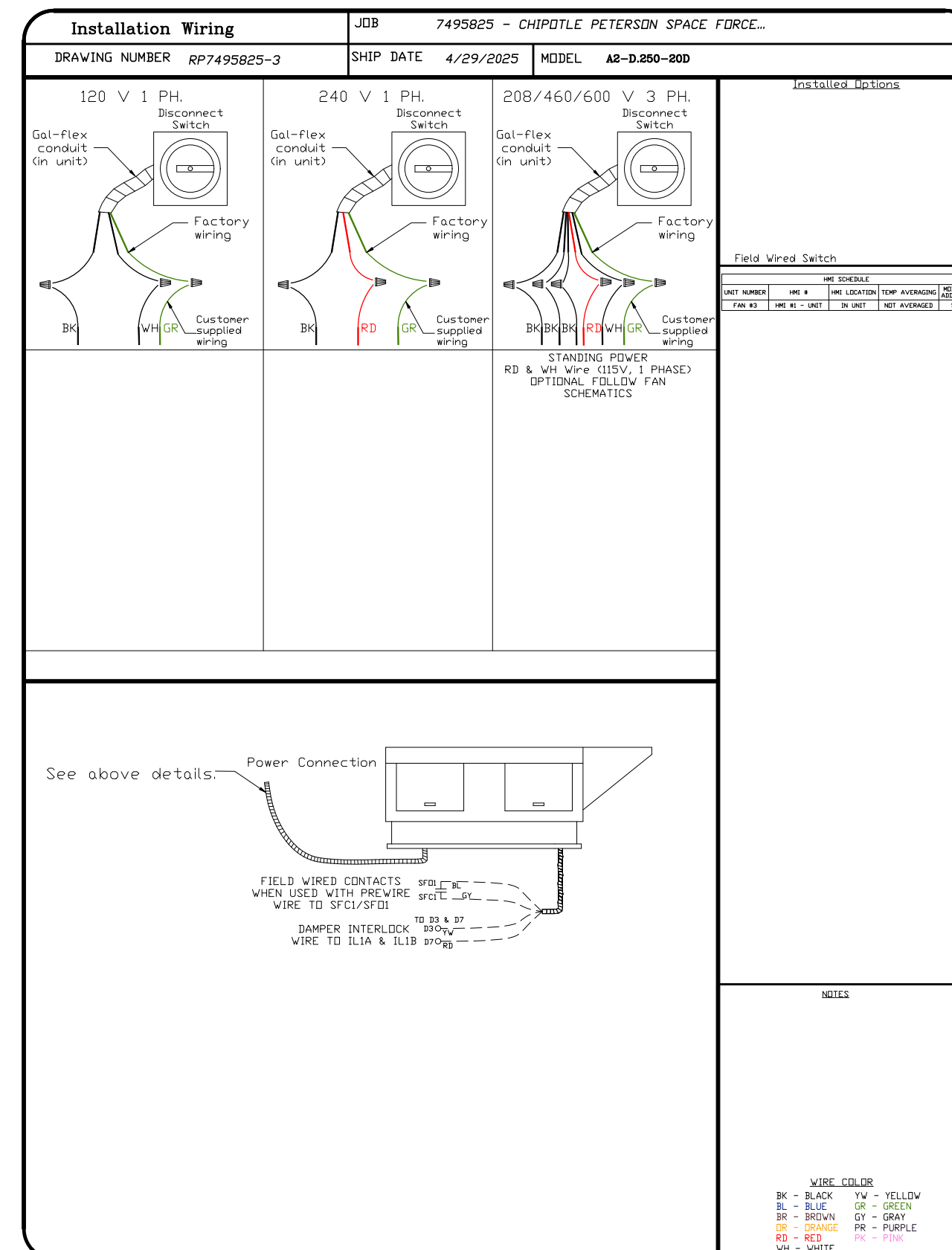
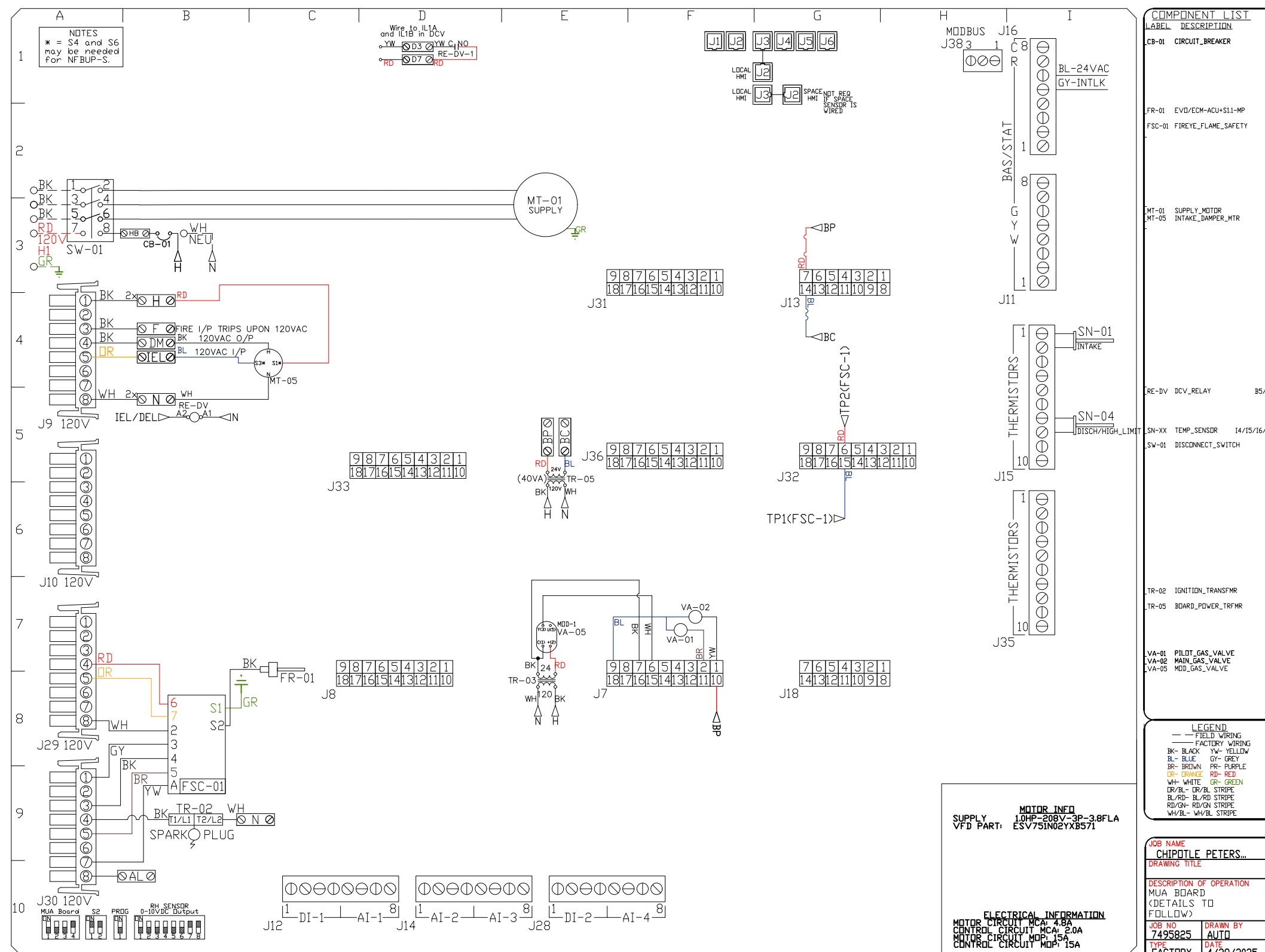


**SYSTEM DESIGN VERIFICATION (SDV)**

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.

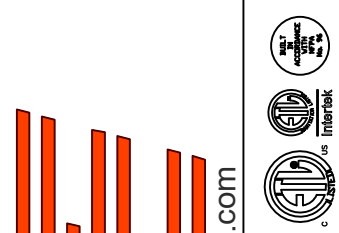
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, 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:



**CAPTIVE**  
 Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 275-0420 FAX: 9198750577 EMAIL: reg40@captivair.com

CHIPOTLE PETERSON SPACE FORCE #5609  
 7351 CENTRAL RAIL PT,  
 COLORADO SPRINGS, CO, 80903

DATE: 4/29/2025

DWG.#:  
7495825

DRAWN BY:

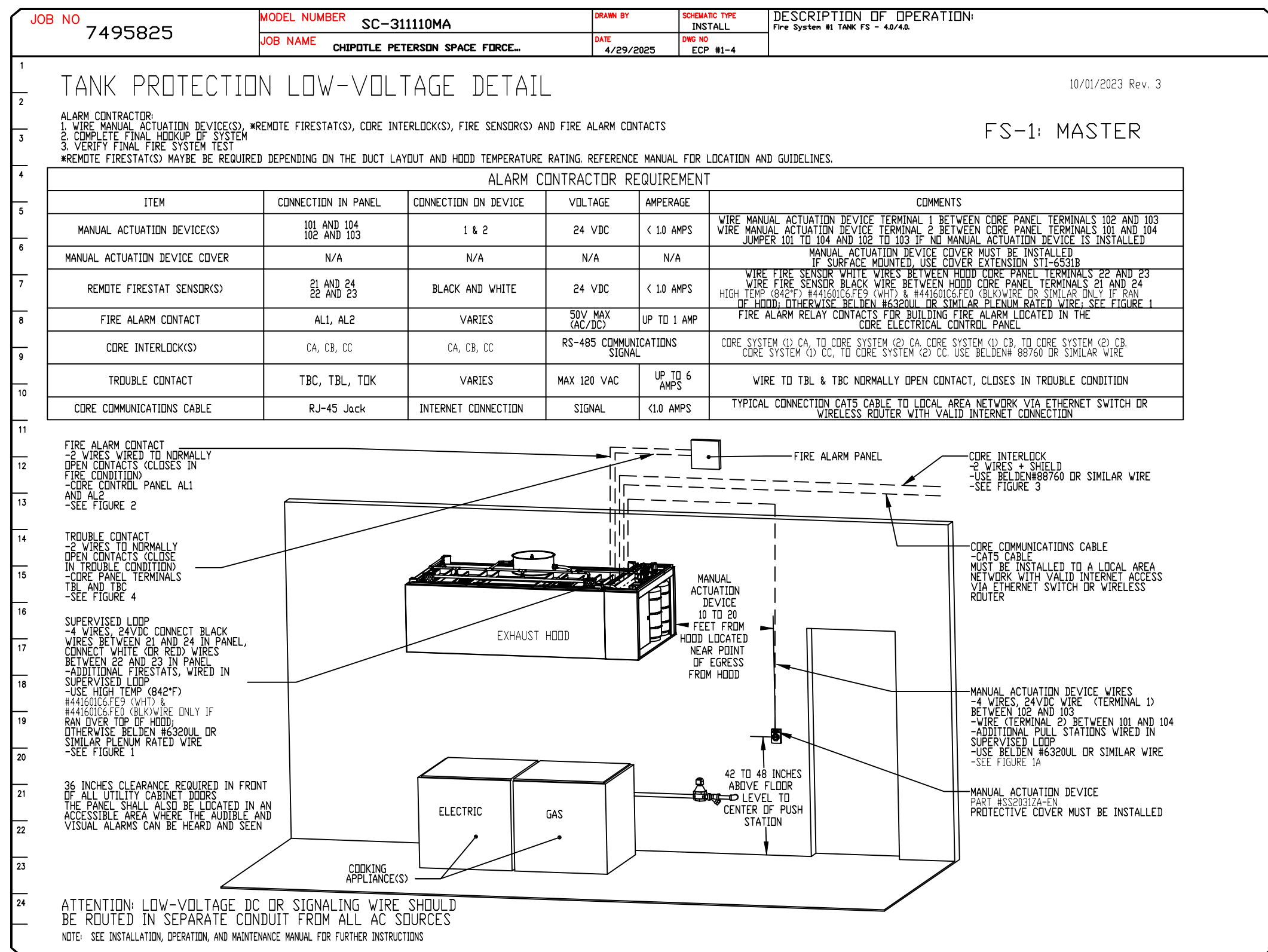
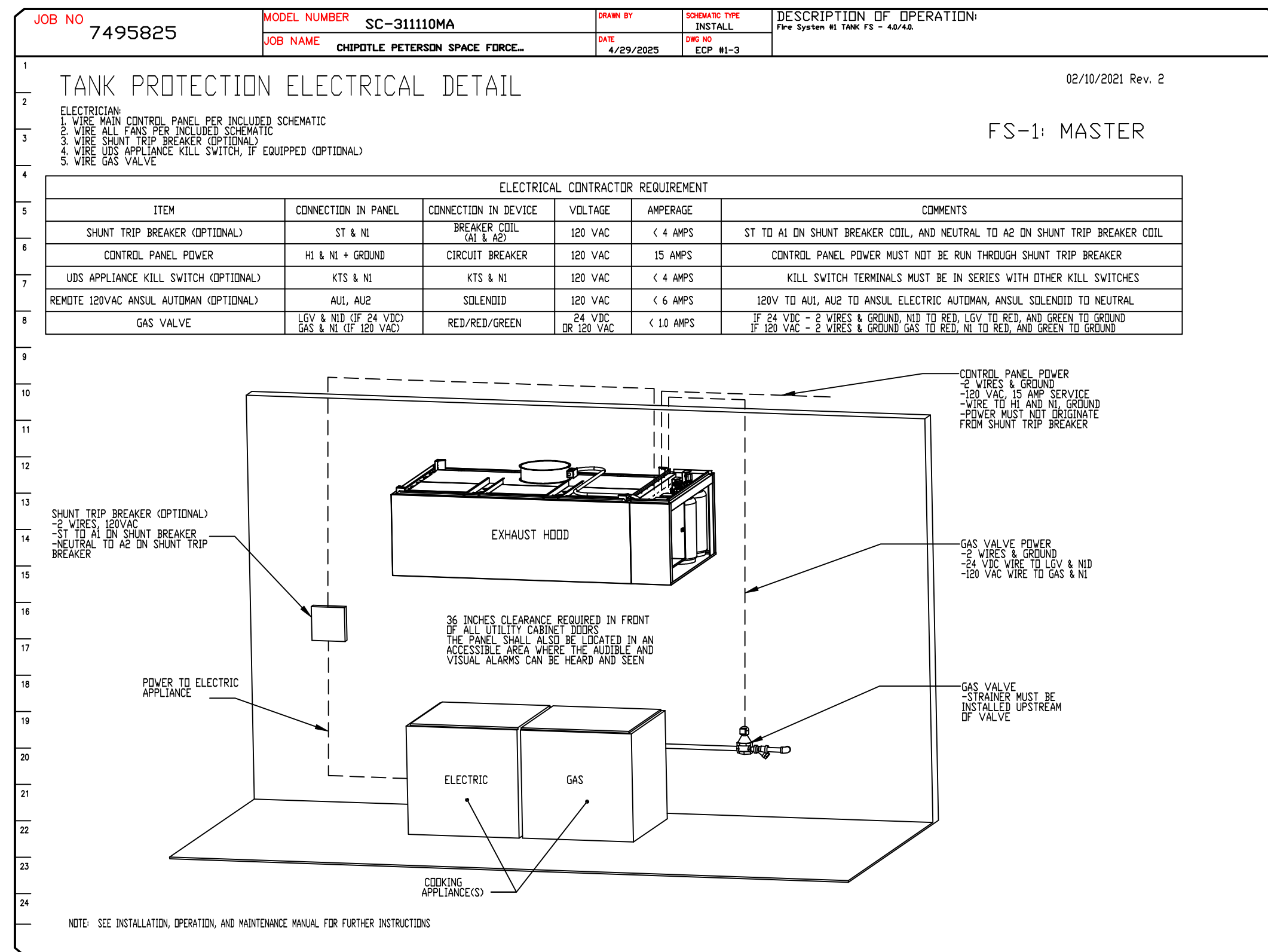
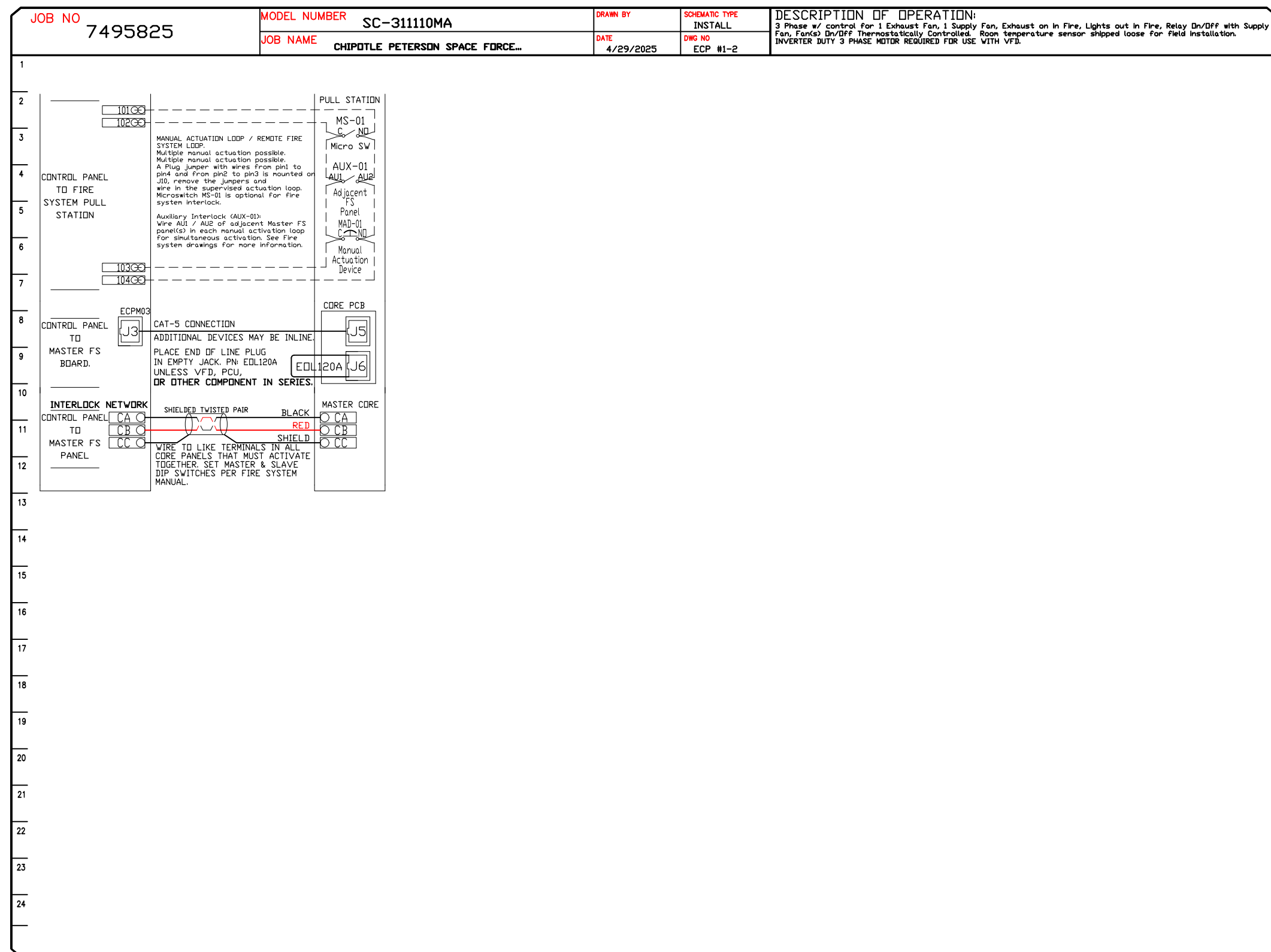
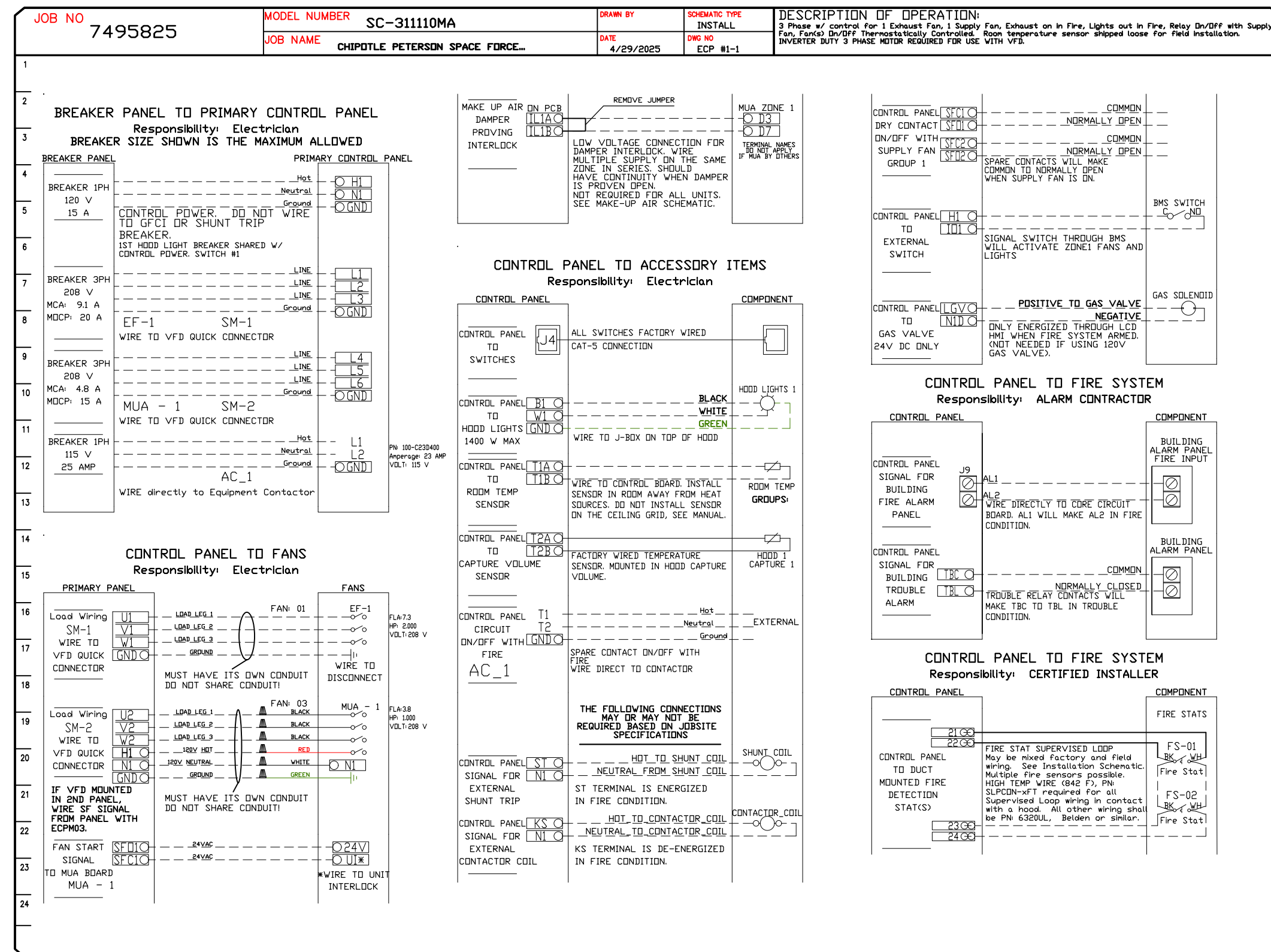
SCALE:  
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

**ELECTRICAL PACKAGE - JOB#7495825**

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	2.000	208	7.3
							MUA - 1	SUPPLY	3	1.000	208	3.8



**REVISIONS**

NO.	DESCRIPTION	DATE

**www.captiveair.com**

**Highwoods Group**

4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 975 - 0420 FAX: 9198750577 EMAIL: reg4@captivaire.com

**CHIPOTLE PETERSON SPACE FORCE #5609**

**7351 CENTRAL RAIL PT.,**

**COLORADO SPRINGS, CO, 80903**

**DATE:** 4/29/2025

**DWG.#:** 7495825

**DRAWN BY:**

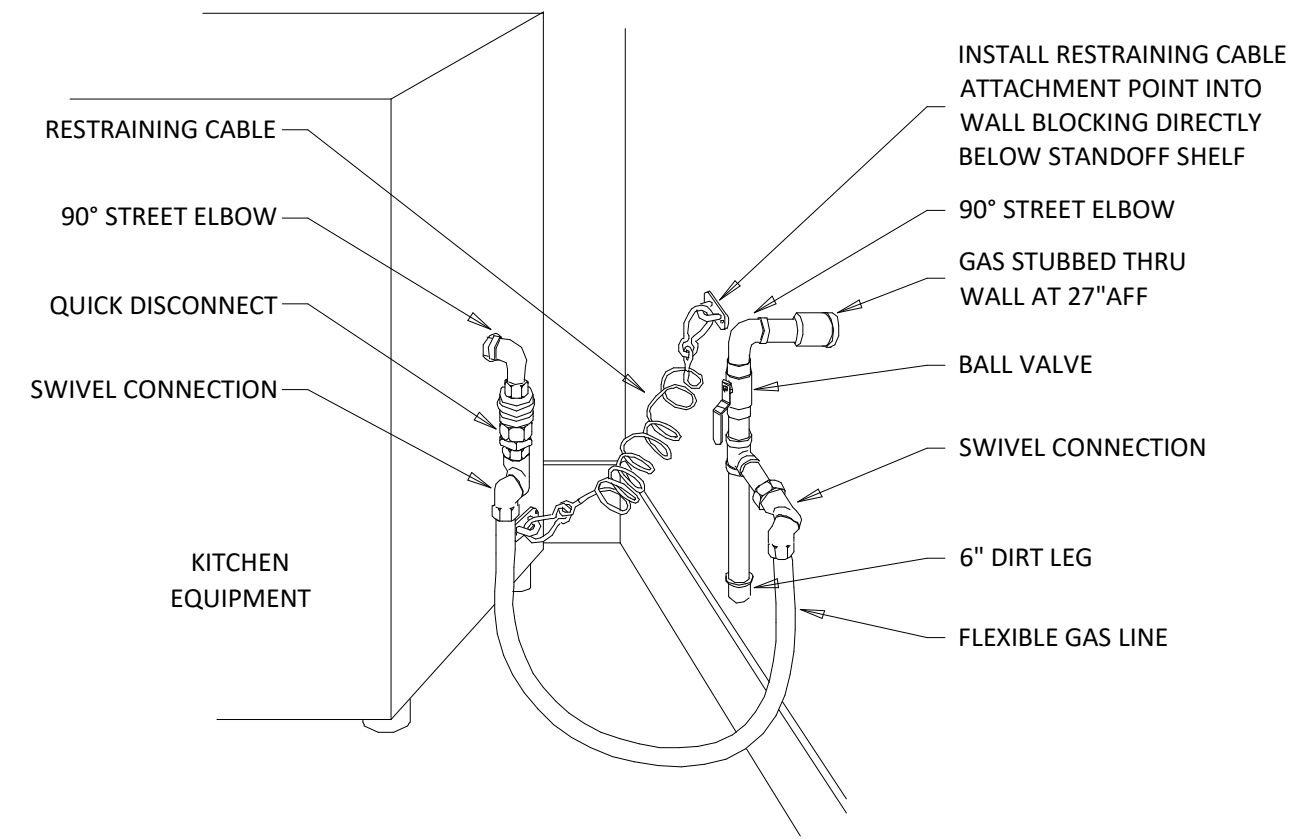
**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**

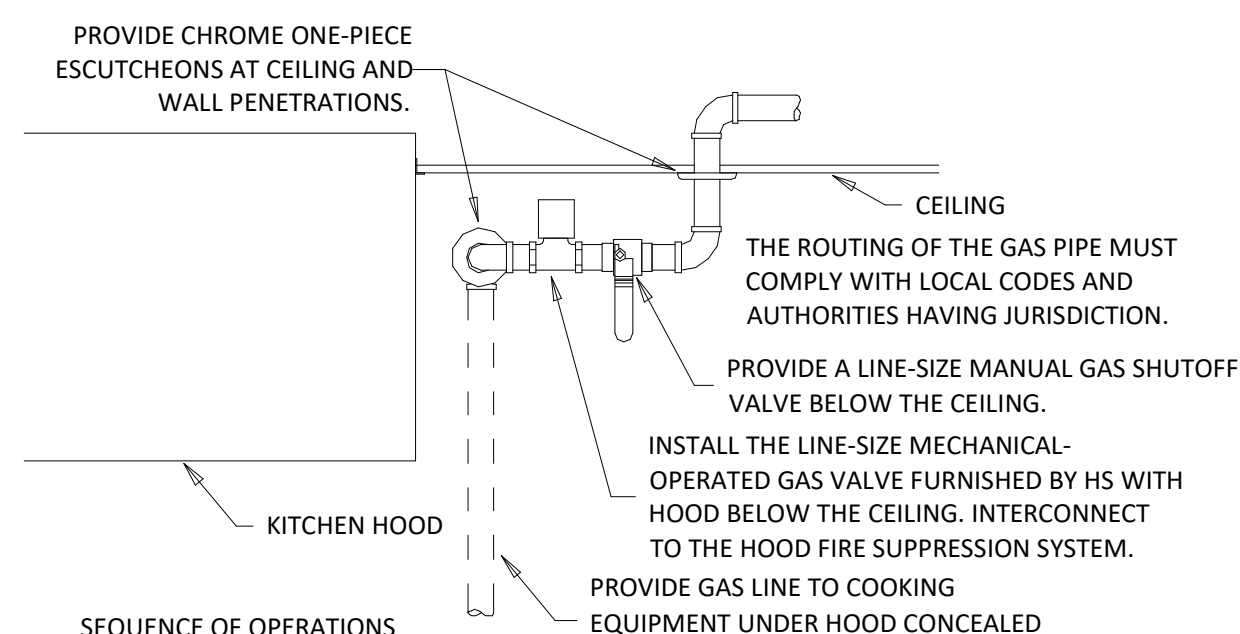
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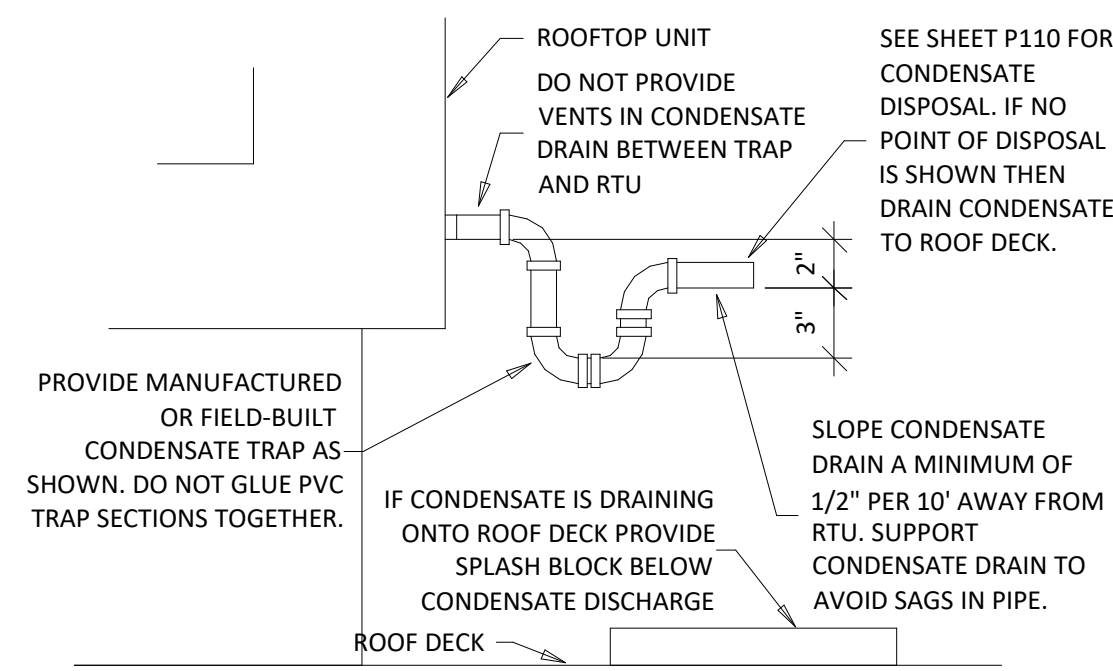
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

**4 KITCHEN GAS EQUIPMENT DETAIL**  
M900 N.T.S.

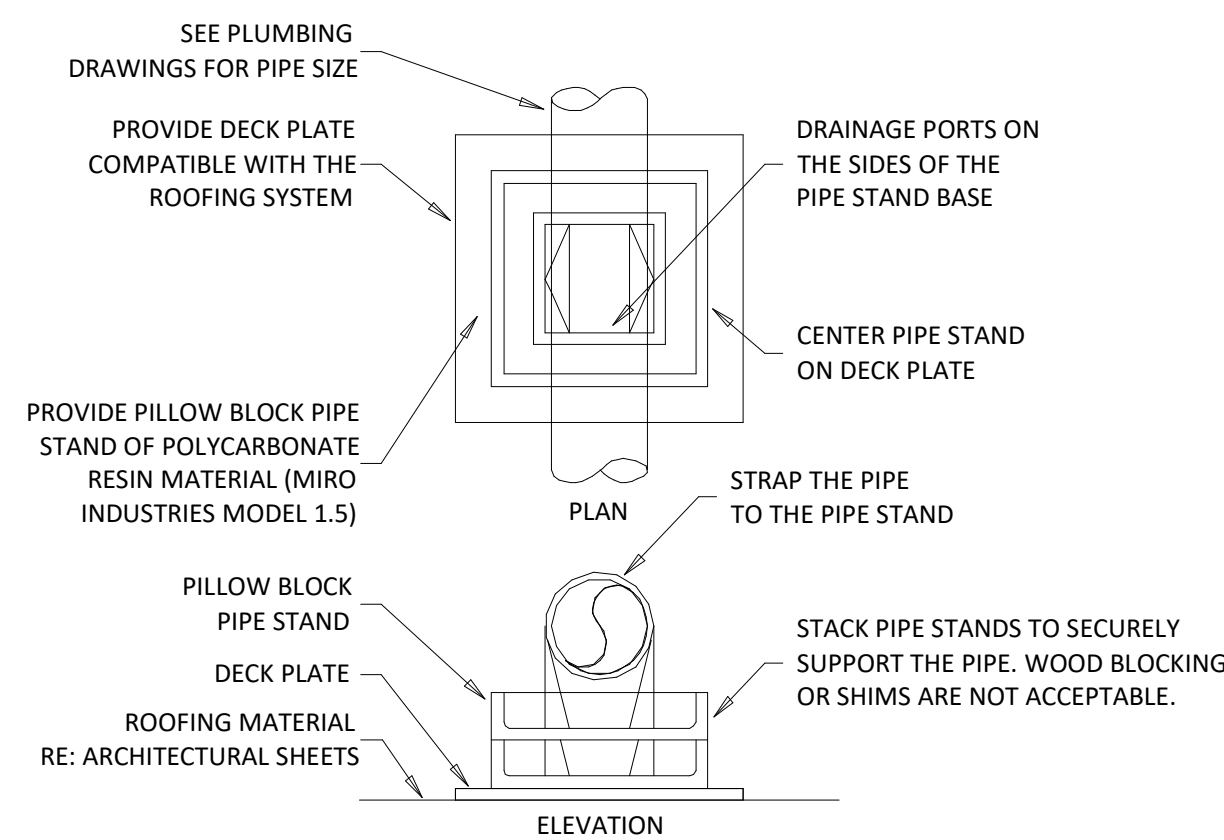


SEQUENCE OF OPERATIONS  
NORMAL MODE:  
• DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.  
EMERGENCY MODE:  
• UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

**1 KITCHEN GAS SHUTOFF DETAIL**  
M900 N.T.S.

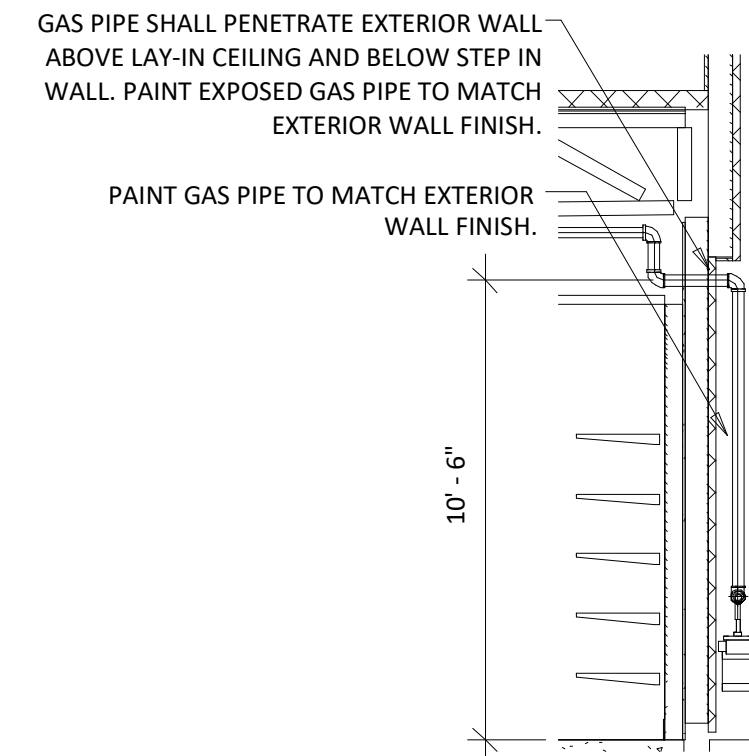


**5 RTU CONDENSATE TRAP DETAIL**  
M900 N.T.S.

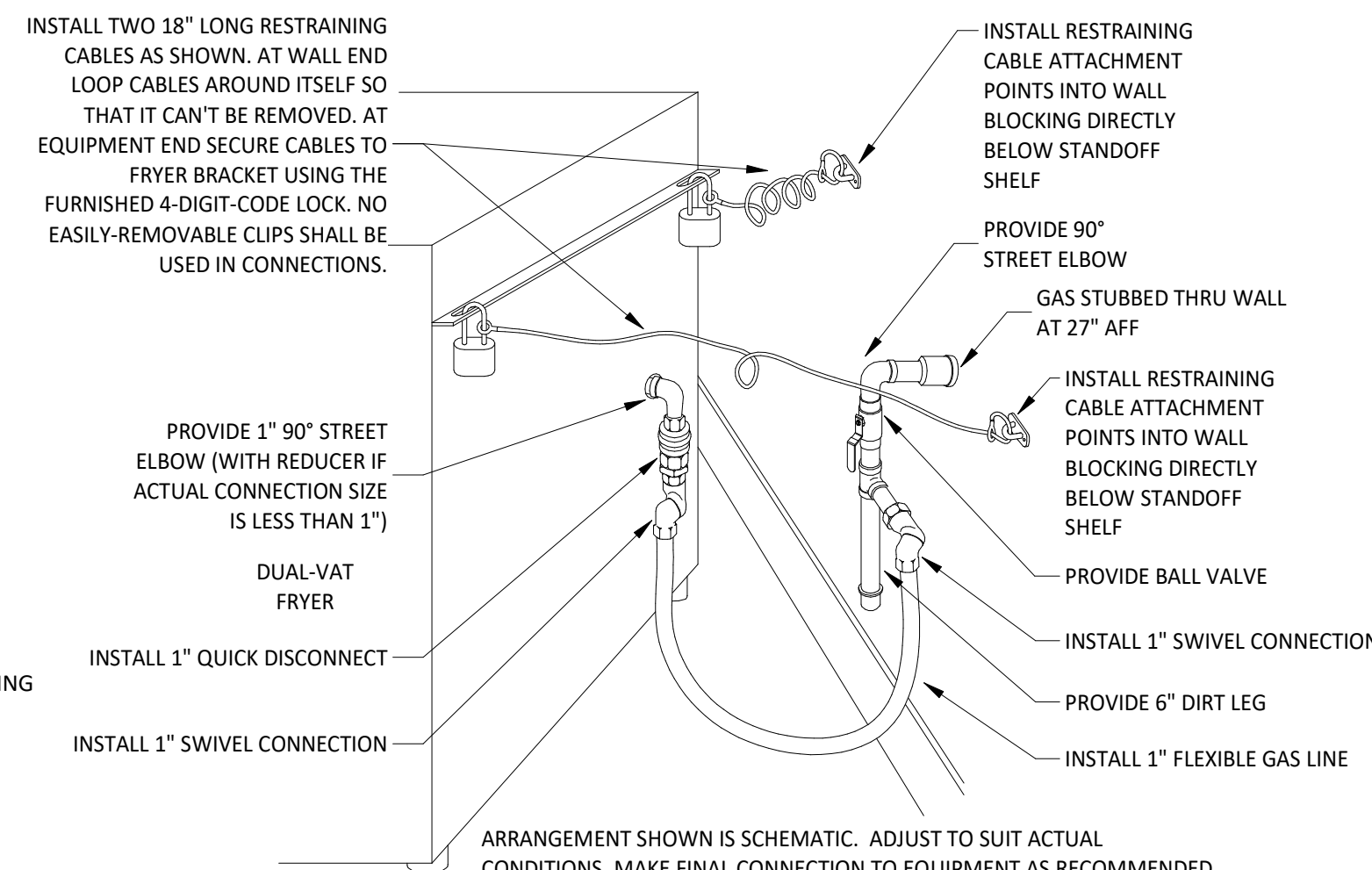


PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"-6"; 3/4"-1"-8"; 1 1/4" AND LARGER-10"; PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION.

**2 ROOFTOP PIPING SUPPORT**  
M900 N.T.S.



**6 GAS METER SECTION**  
M900 N.T.S.



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

**3 DUAL VAT FRYER CONNECTION DETAIL**  
M900 N.T.S.



LINGLE DESIGN GROUP INC.  
158 W. MAIN ST.  
LENA, IL 61045  
815.369.9155  
1764 BLAKE ST  
DENVER, CO 80202  
303.974.5873  
WWW.LINGLEDESIGN.COM



08/14/25

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COLUMBUS, OH 43218-2566  
TELEPHONE: 614.318.2400  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 5609  
PETERSON SPACE FORCE  
7351 CENTRAL RAIL PT.  
COLORADO SPRINGS, CO 80903

Issue Record:	
04/21/25	PERMIT SET
07/17/25	DB UPDATES
08/14/25	CITY COMMENTS

Revisions:	
2	08/14/25 CITY COMMENTS

Drawn: JW  
Checked: JV

Project No.  
CMG 5609

Contents:

GAS DETAILS

**CASE**  
Engineering Inc.  
796 Mesa Court  
St. Louis, MO 63026  
T 636.349.1800  
F 636.349.1730

