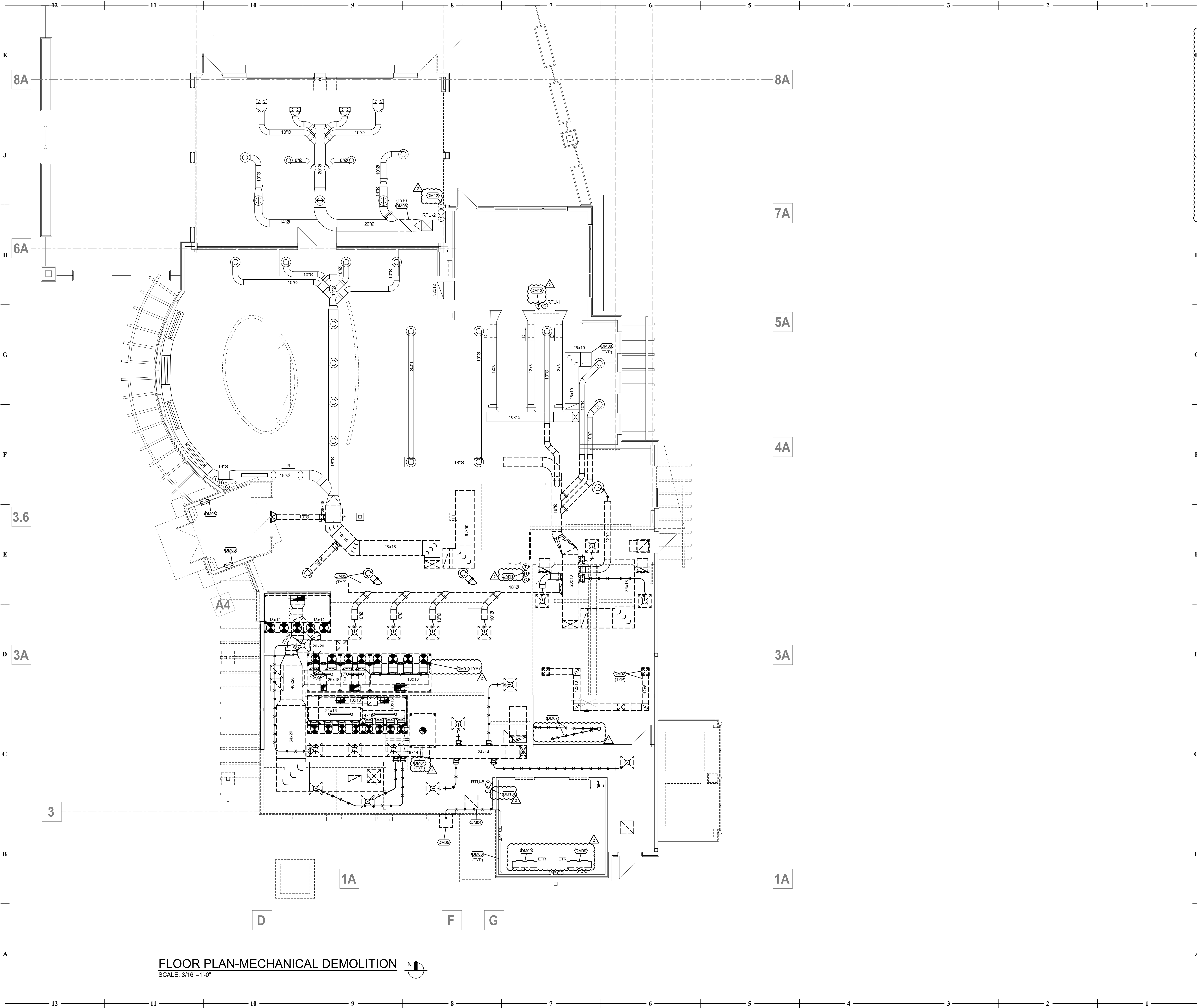
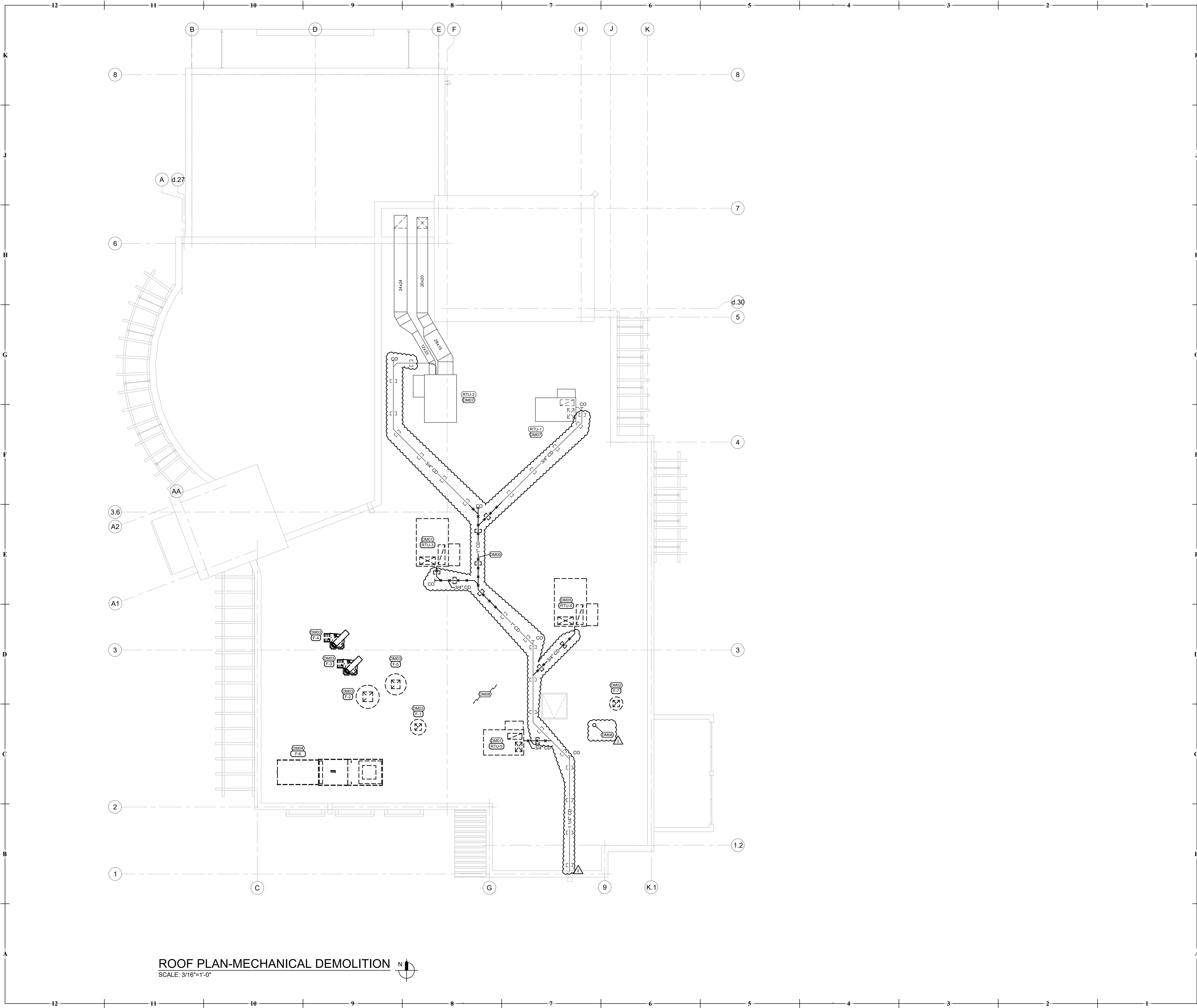




- FLOOR PLAN NOTES**
1. DISCONNECT AND REMOVE HOODS, SUPPORTS, DUCTWORK, ETC. IN THEIR ENTIRETY. OWNER RESERVES FIRST RIGHT OF REFUSAL. REMOVE ANY UNWANTED EQUIPMENT FROM SITE.
 2. REMOVE DUCTWORK, DIFFUSERS, RETURN GRILLES WHERE INDICATED.
 3. EXISTING COOLER CONDENSATE TO BE REROUTED.
 4. REMOVE CONDENSATE PIPING WHERE INDICATED.
 5. REMOVE PIPING TO CONDENSATE PIT. FILL IN PIT TO MATCH ADJACENT.
 6. REMOVE ENTRY HEATERS. SECURE FOR USE UNDER NEW WORK PLAN.
 7. DISCONNECT AND REMOVE EXISTING WATER HEATER. FLUE AND COMBUSTION AIR IN THEIR ENTIRETY.
 8. CONTRACTOR SHALL PROVIDE MERV 7 FILTER MEDIA OVER ALL REMAINING RETURN OPENINGS THROUGHOUT DURATION OF CONSTRUCTION. MEDIA TO BE REPLACED WEEKLY OR AS CONDITIONS REQUIRE.
 9. EXISTING EVAPORATOR TO REMAIN.
 10. DISCONNECT AND REMOVE CONTROLS. RE: NEW WORK PLAN FOR RELOCATION.
 11. DISCONNECT AND REMOVE CONTROLS. OWNER RESERVES FIRST RIGHT OF REFUSAL.
 12. EXISTING CONTROLS TO REMAIN. REMOVE / REINSTALL AS REQUIRED FOR ANY ARCHITECTURAL SCOPE OF WORK. PROVIDE PLASTIC COVER TO PROTECT DURING CONSTRUCTION.

FLOOR PLAN-MECHANICAL DEMOLITION
SCALE: 3/16"=1'-0"

FLOOR PLAN-MECHANICAL DEMOLITION



- FLOOR PLAN NOTES**
1. DISCONNECT AND REMOVE ROOFTOP UNIT, CURB, CONTROLS, ACCESSORIES ETC. IN ITS ENTIRETY. PROVIDE NEW CURB AND PREPARE UNIT FOR RELOCATION. RE: NEW WORK PLAN FOR RELOCATION.
 2. DISCONNECT AND REMOVE EXHAUST FAN, CURB, ACCESSORIES, ETC. IN ITS ENTIRETY. RE: NEW WORK PLAN FOR RELOCATION. REMOVE ANY UNWANTED EQUIPMENT FROM SITE.
 3. DISCONNECT AND REMOVE EXHAUST FAN, CURB, ACCESSORIES, ETC. IN ITS ENTIRETY. OWNER RESERVES FIRST RIGHT OF REFUSAL. REMOVE ANY UNWANTED EQUIPMENT FROM SITE.
 4. DISCONNECT AND REMOVE MAKE-UP AIR UNIT, CURB, ACCESSORIES, ETC. IN ITS ENTIRETY. OWNER RESERVES FIRST RIGHT OF REFUSAL. REMOVE ANY UNWANTED EQUIPMENT FROM SITE.
 5. DISCONNECT AND REMOVE ROOFTOP UNIT, CURB, CONTROLS, ACCESSORIES ETC. IN ITS ENTIRETY. OWNER RESERVES FIRST RIGHT OF REFUSAL.
 6. REMOVE EXISTING FLE PIPING. COORDINATE WITH OWNER ROOFING CONTRACTOR TO PATCH ROOFING TO MAINTAIN ANY WARRANTY.
 7. EXISTING ROOFTOP UNIT TO REMAIN. RE: NEW WORK PLANS FOR ADDITIONAL REQUIREMENTS.
 8. COORDINATE ALL ROOFING WORK WITH OWNER CONTRACTOR TO MAINTAIN WARRANTY.
 9. REMOVE CONDENSATE DRAIN TO PREPARE FOR INSTALLATION OF NEW ROOFTOP UNIT.

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11460 Tomahawk Creek Parkway, Suite 400, Leawood, Kansas 66211
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CONSTRUCTION DOCUMENTS

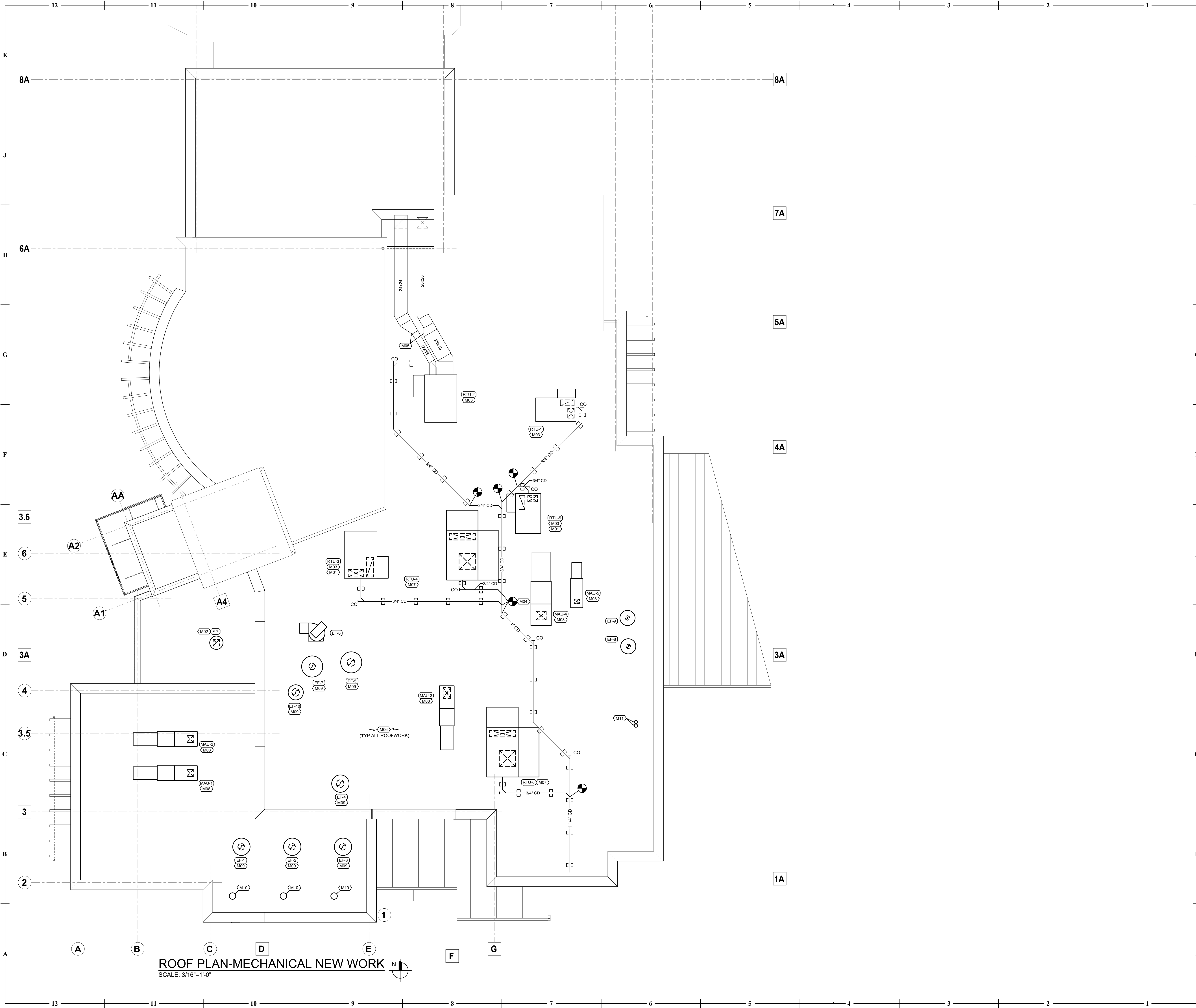
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LENEXA, KS 66219

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REVISION DATES:
ADDENDUM 1 12.18.2020
ADDENDUM 2 01.08.2021

PROFESSIONAL SEAL
17912
KANSAS
REGISTERED PROFESSIONAL ENGINEER
01/08/2021
M1.02
ISSUE DATE: 06 JANUARY 2021
HOEFER WYSOCKI #: 101201

ROOF PLAN-MECHANICAL DEMOLITION



GENERAL NOTES

A. REFER TO KITCHEN CONSULTANT PLANS AND CAPTIVE
AIRE HOOD DRAWINGS FOR KITCHEN TAG
DESCRIPTIONS, EXACT CONNECTION LOCATIONS,
EXACT CONNECTION TYPE AND INSTALLATION
REQUIREMENTS FOR ALL KITCHEN AND HOOD
EQUIPMENT. CONTRACTOR RESPONSIBLE TO MAKE ALL
CONNECTIONS WITH WIRING, PIPING AND DUCTWORK
AND ACCESSORIES REQUIRED BY ALL EQUIPMENT FOR
COMPLETE AND OPERATIONAL SYSTEMS.

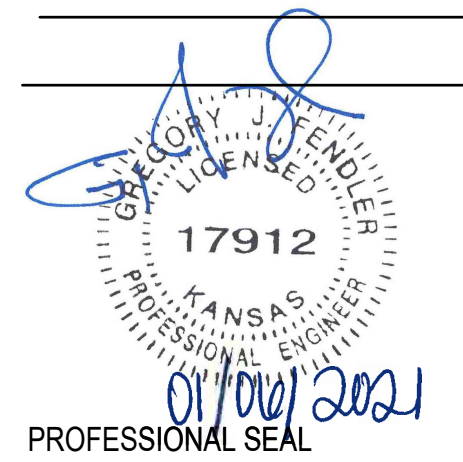
FLOOR PLAN NOTES

1. INSTALL NEW ROOF CURB. INSTALL ROOFTOP UNIT
PROCURED FROM DEMOLITION SCOPE OF WORK.
2. 2" INSTALLED PROCURED FAN AND BACKDRAFT DAMPER
PROCURED FROM DEMOLITION SCOPE OF WORK ON NEW
ROOF CURB. BALANCE TO SCHEDULED AIRFLOW. CLEAN AND
GREASE FAN AS REQUIRED.
3. 3" MECHANICAL CONTRACTOR SHALL PROVIDE SERVICE AND
FULL STARTUP PER MANUFACTURERS RECOMMENDATION,
UPON COMPLETION OF WORK, PRIOR TO BALANCE
INCLUDING ALL CONTROL VERIFICATION AND OPERATION.
4. 4" CONNECT CONDENSATE TO EXISTING. PROVIDE PIPE
SUPPORTS AT NO LESS THAN 5' INTERVALS AND AT EACH
CHANGE OF DIRECTION. SLOPE AT 1/8" PER FOOT.
5. 5" PRESSURE TEST AND INSPECT EXISTING EXTERIOR
DUCTWORK FOR LEAKS. SEAL ANY ISSUES FOUND.
6. CONTRACTOR SHALL ENGAGE OWNER ROOFING
CONTRACTOR FOR ALL ROOFING WORK TO MAINTAIN
ANY WARRANTY.
7. INSTALL NEW ROOFTOP UNIT AND CURB.
8. INSTALL GAS FIRED MAKE-UP AIR UNIT AND ANY
ACCESSORIES. PROVIDED BY OTHERS, INSTALLED BY
MECHANICAL CONTRACTOR.
9. INSTALL EXHAUST FAN, CURB AND ANY ACCESSORIES.
PROVIDED BY OTHERS, INSTALLED BY MECHANICAL
CONTRACTOR.
10. SMOKER DUCT STACK FROM BELOW. PROVIDE WITH
MANUFACTURER APPROVED TERMINATION.
11. WATER HEATER FLUE AND COMBUSTION PIPING
THROUGH ROOF. TERMINATE PER MANUFACTURERS
RECOMMENDATION. MAINTAIN CLEARANCE OF
BUILDING INTAKE.

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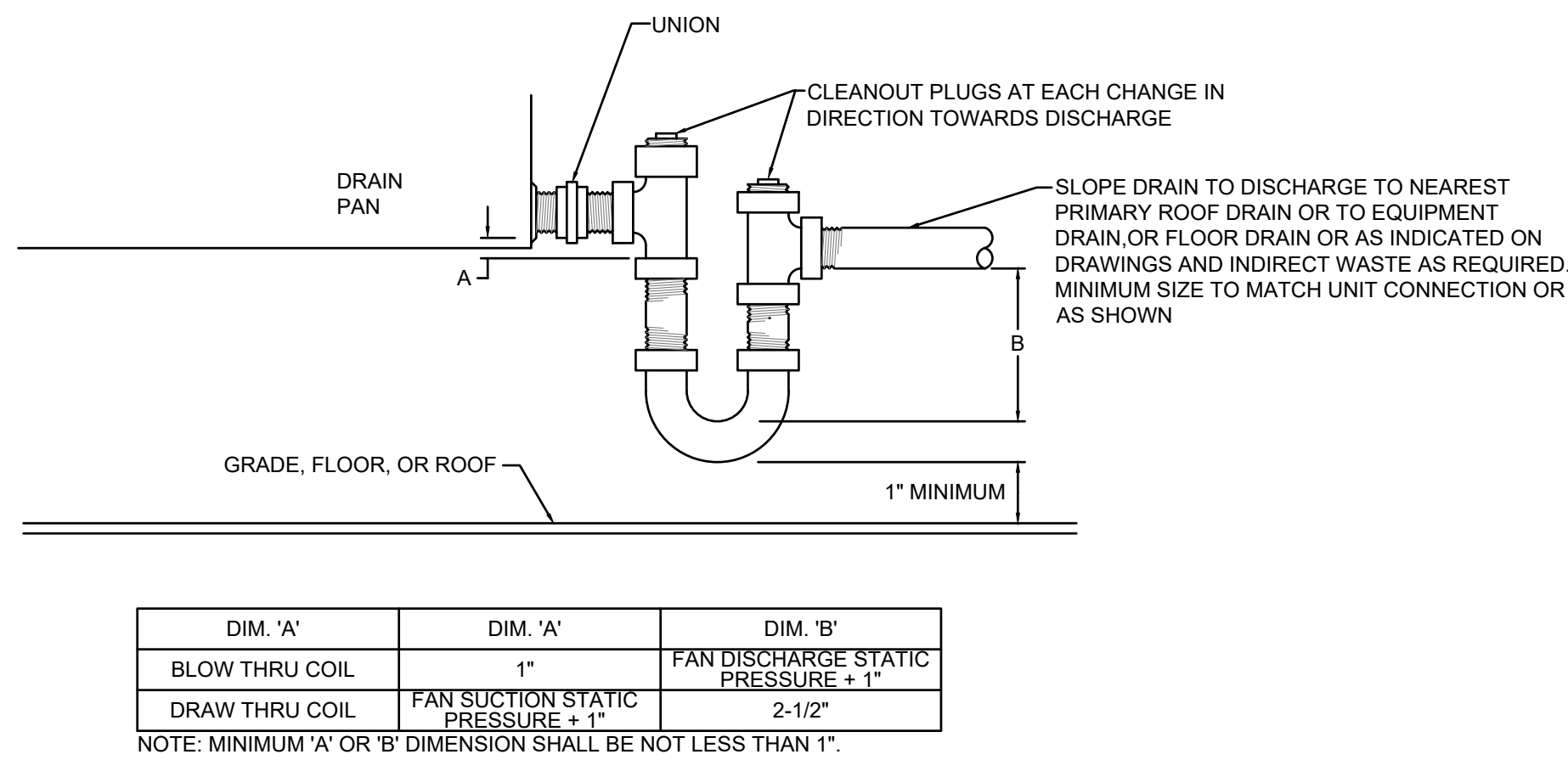


PROFESSIONAL SEAL

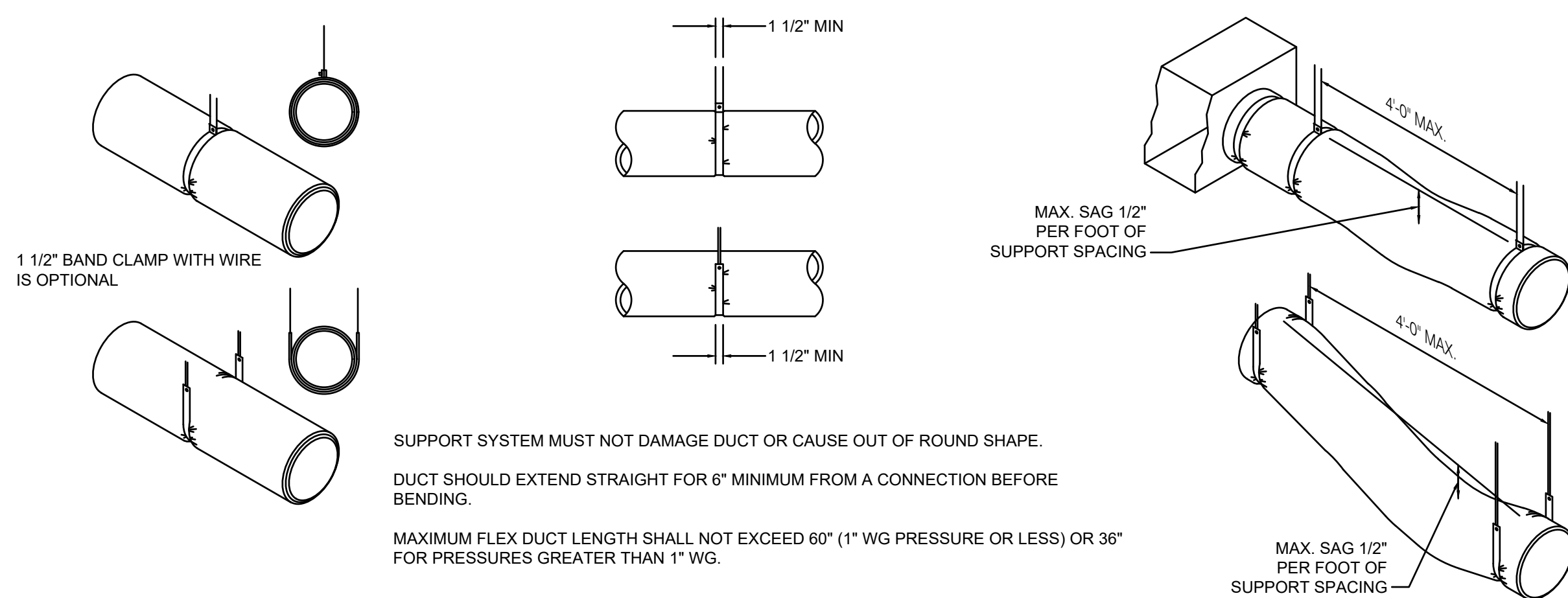
M1.12
ISSUE DATE: 06 JANUARY 2021
HOEFER WYSOCKI #: 101201

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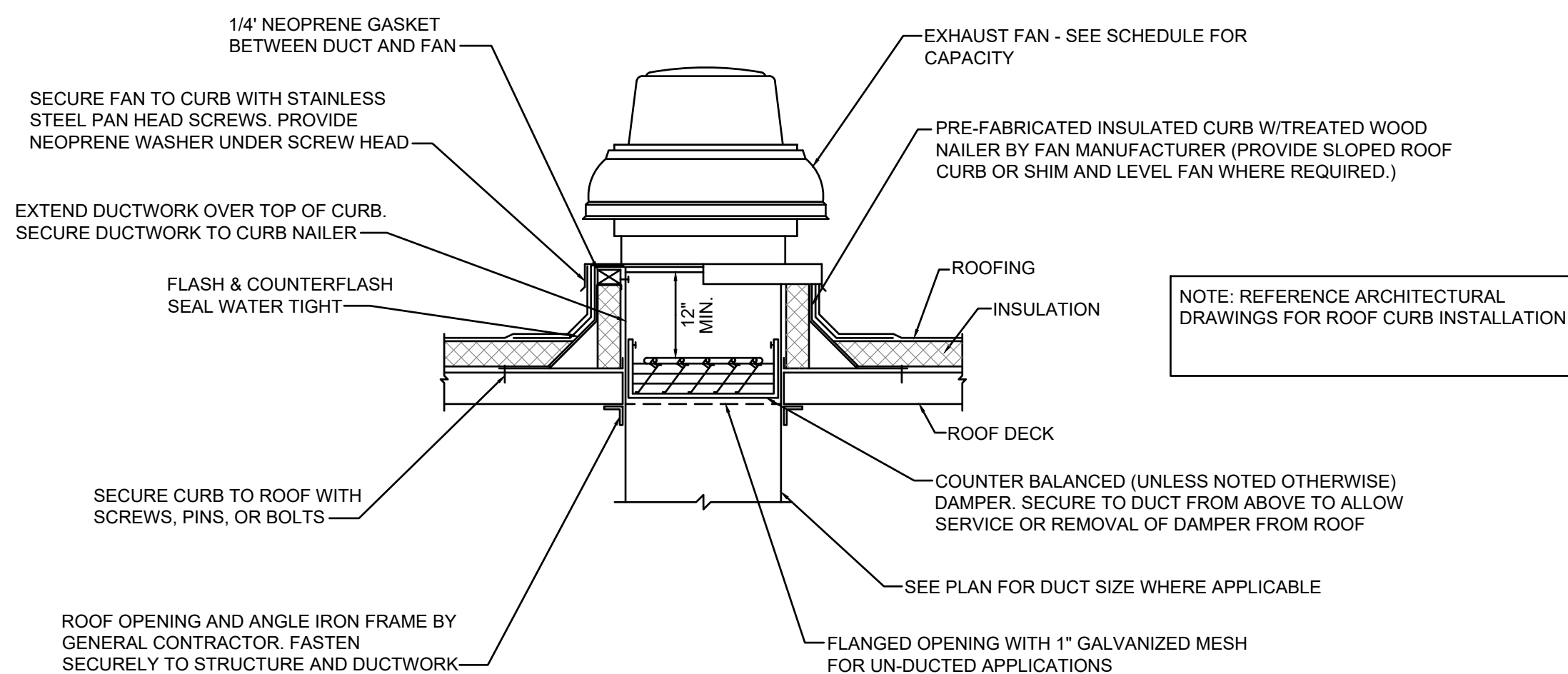
ROOF PLAN-MECHANICAL
NEW WORK



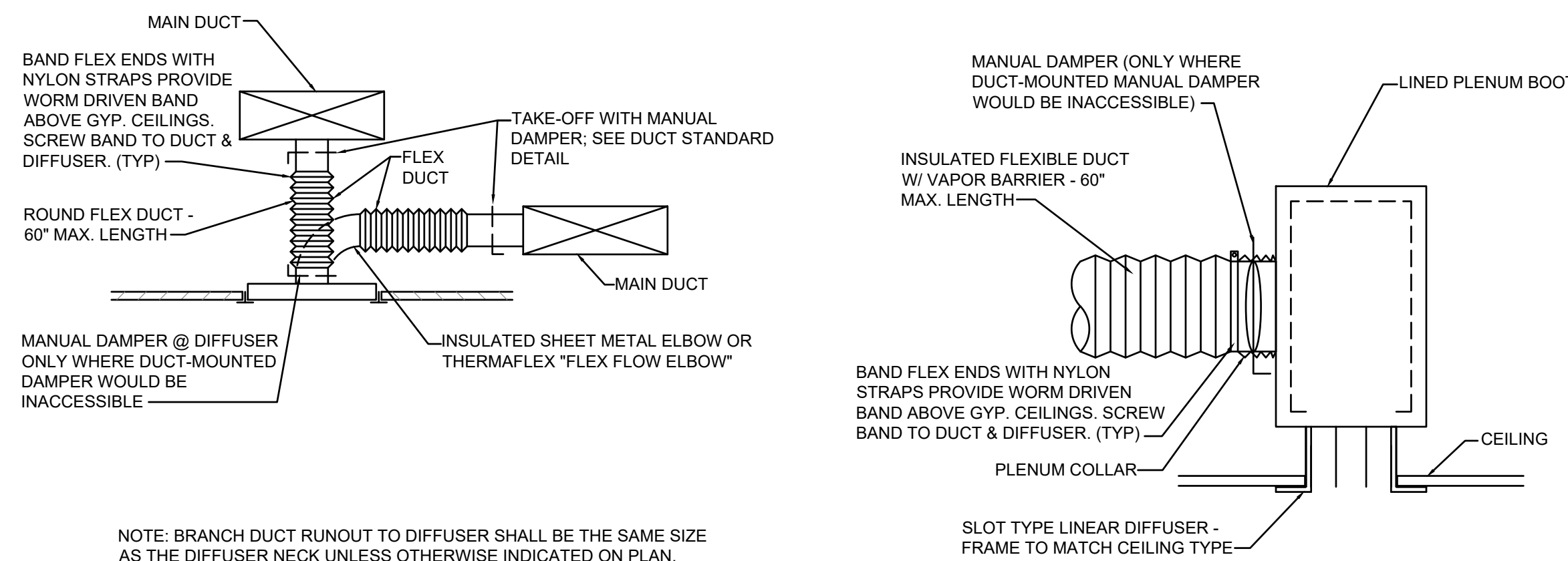
HVAC CONDENSATE TRAP DETAIL
NO SCALE



FLEXIBLE DUCT SUPPORT DETAIL
NO SCALE

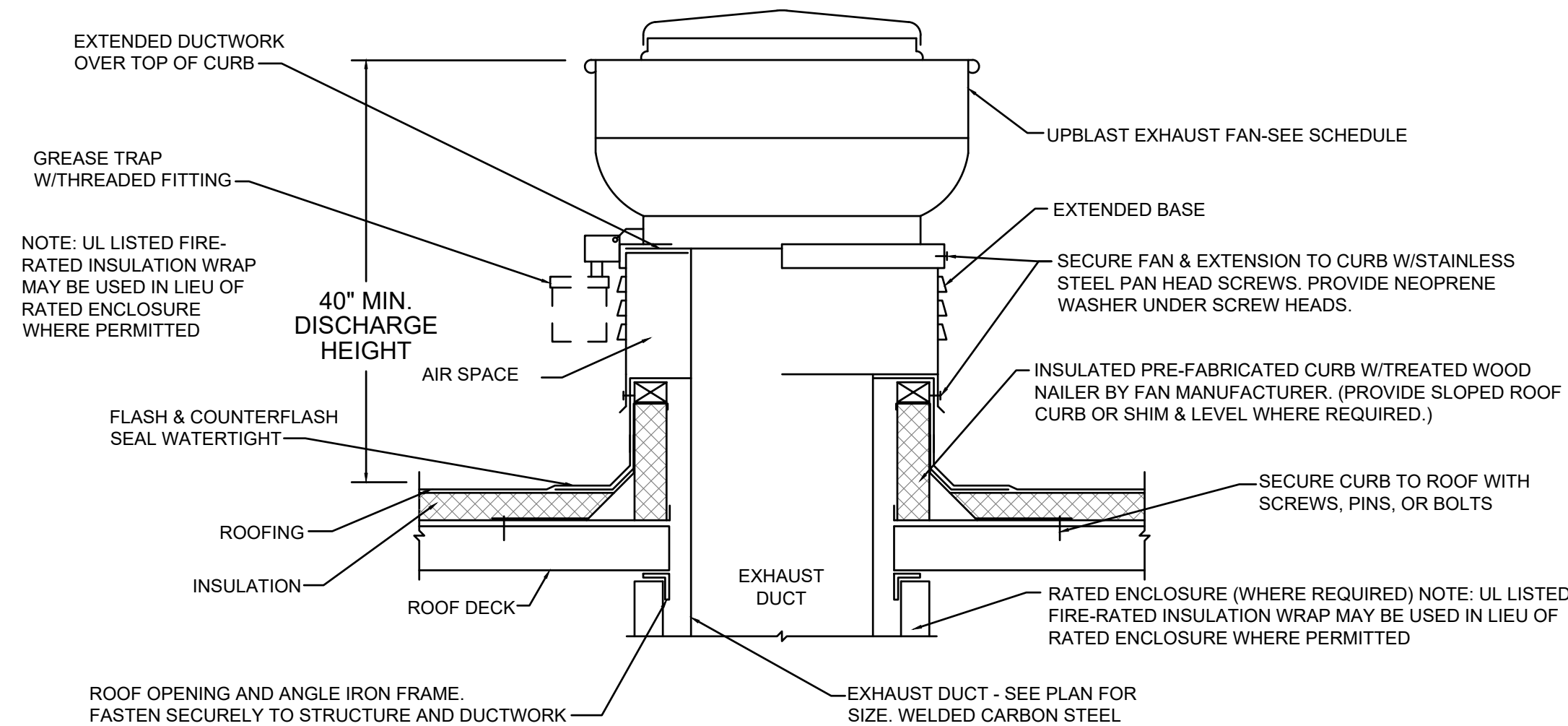


ROOF MOUNTED EXHAUST FAN DETAIL
NO SCALE

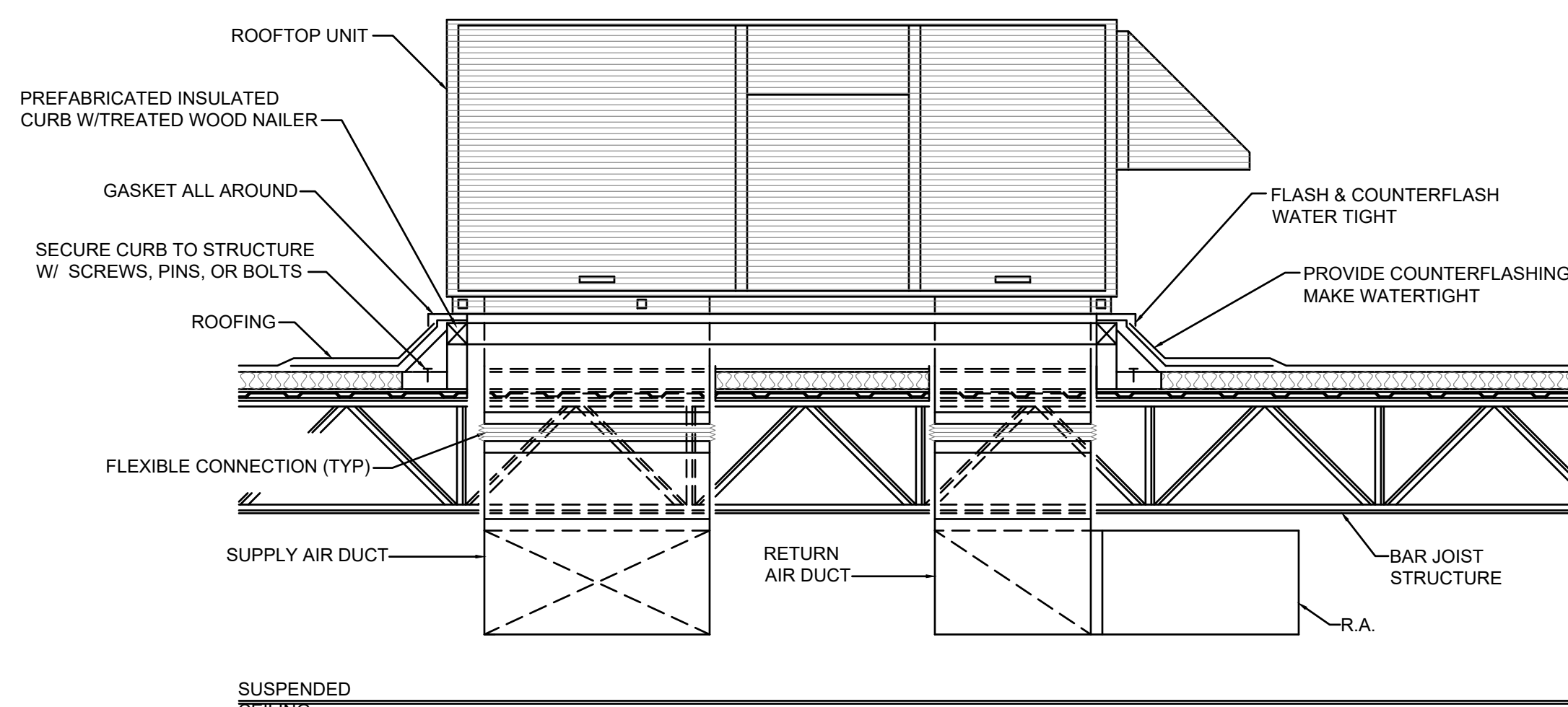


DIFFUSER DETAIL
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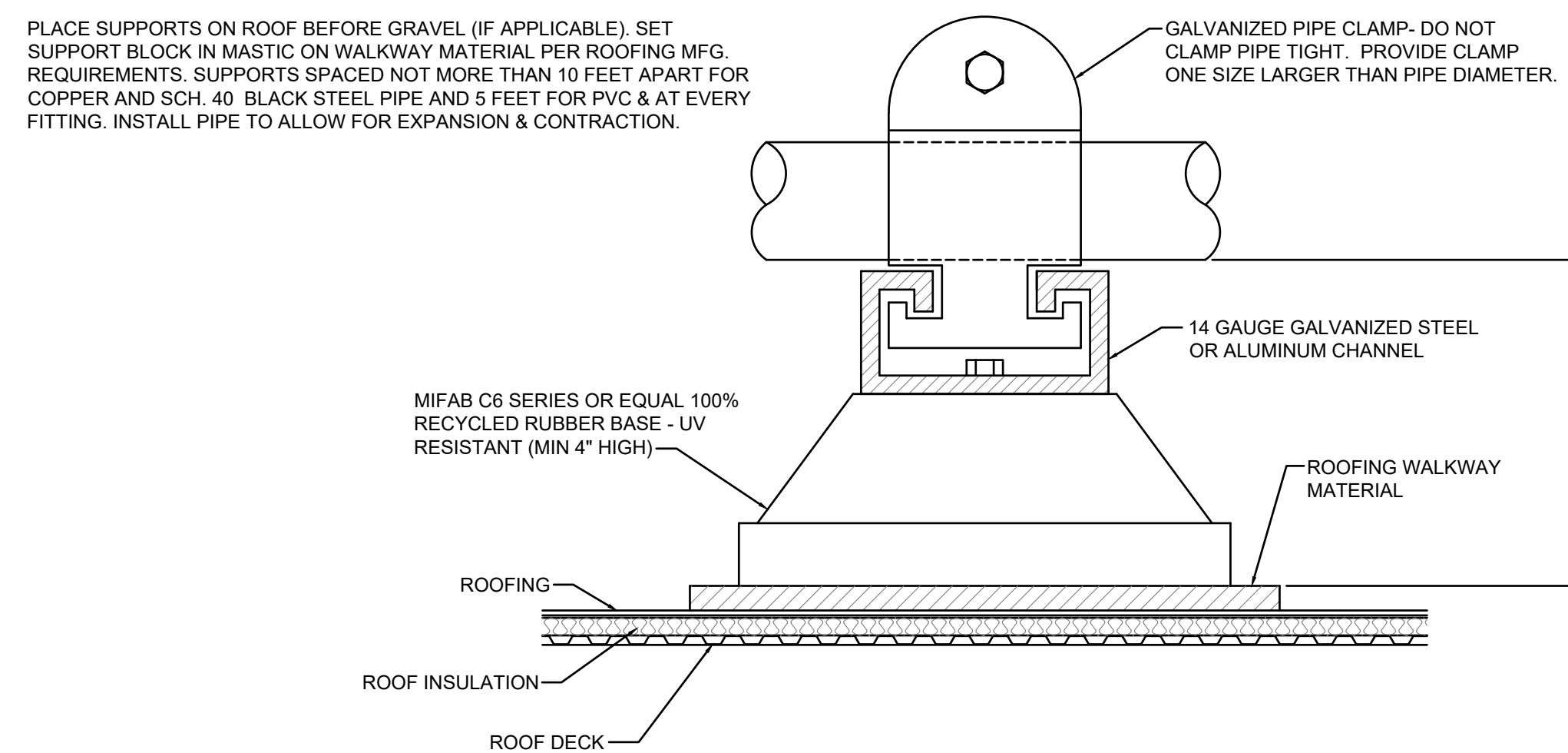
LINEAR DIFFUSER DETAIL
NO SCALE



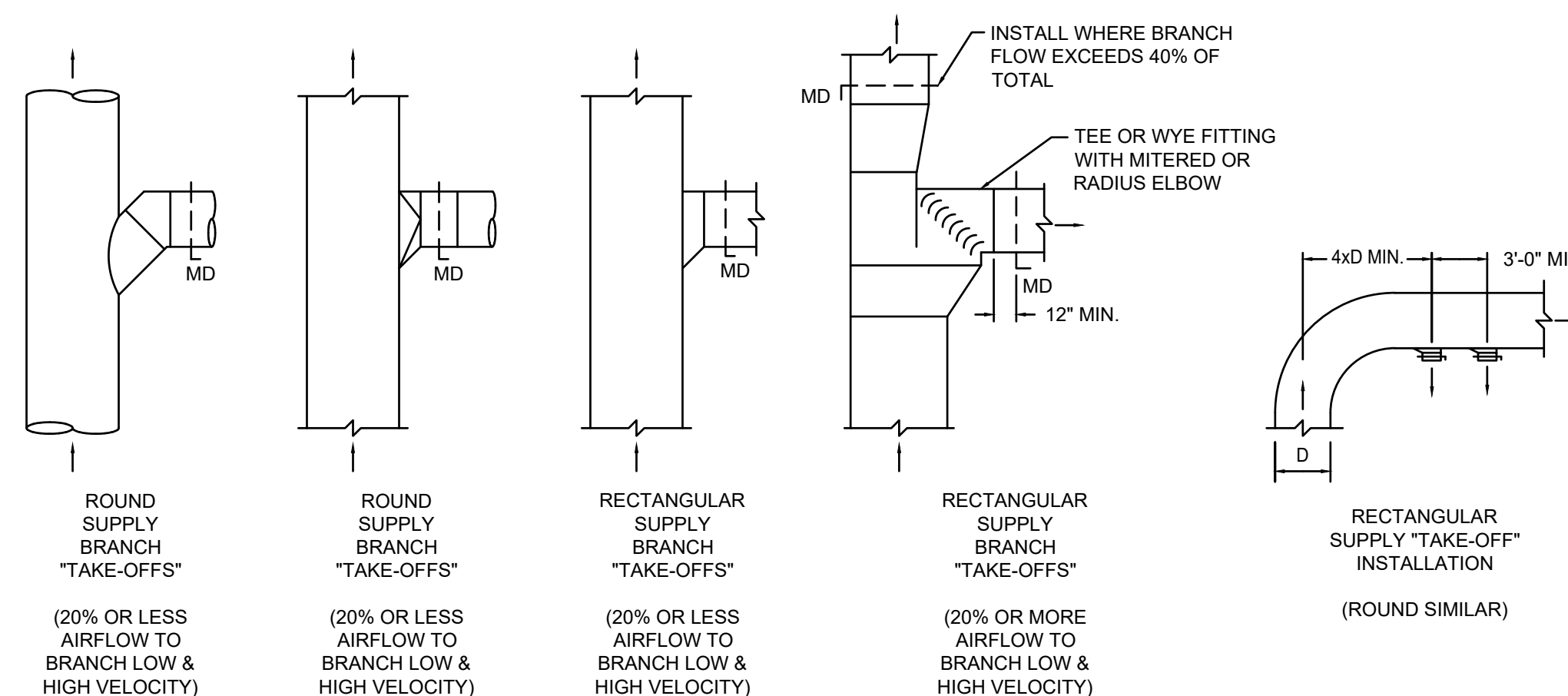
ROOF UPBLAST EXHAUST FAN DETAIL
NO SCALE



ROOFTOP HVAC UNIT INSTALLATION DETAIL
NO SCALE



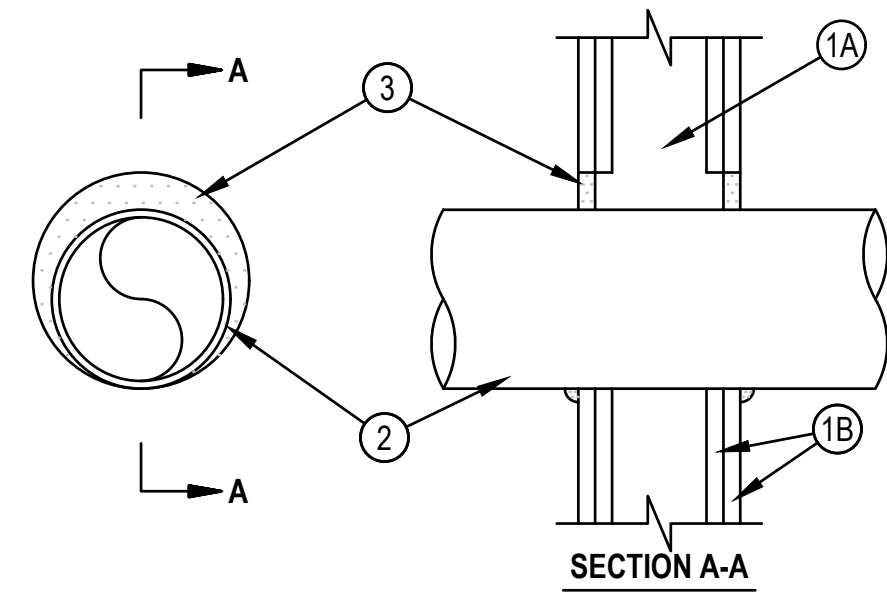
PREFAB ROOF PIPE SUPPORT DETAIL
NO SCALE



DUCT STANDARDS
NO SCALE



System No. W-L-1054	
ANSI/UL 1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



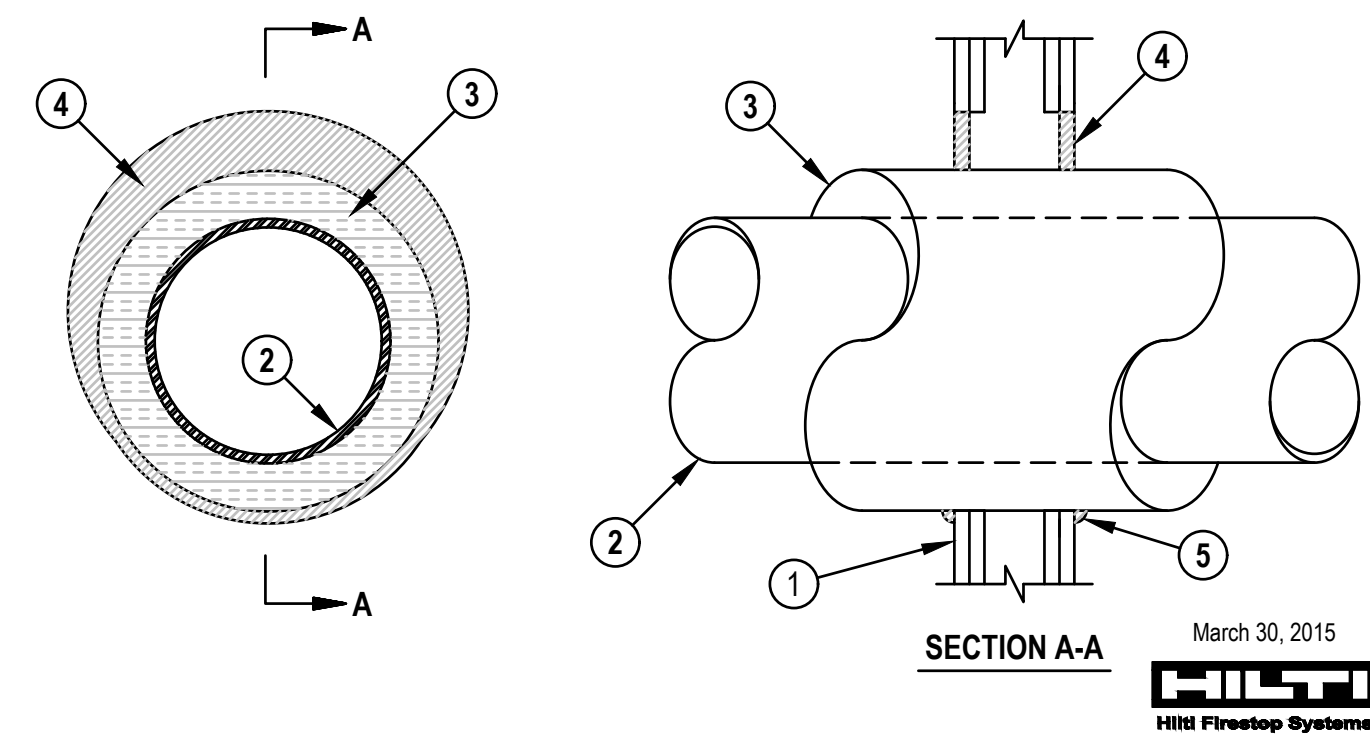
1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
- B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
- The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A. Steel Pipe — Nom 3/4 in. (19 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
- B. Iron Pipe — Nom 3/4 in. (19 mm) diam (or smaller) cast or ductile iron pipe.
- C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
- D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
- HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

GYPSUM/STUD WALL FIRE STOPPING DETAIL NO SCALE NON-INSULATED METALLIC PIPES



System No. W-L-5029	
ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



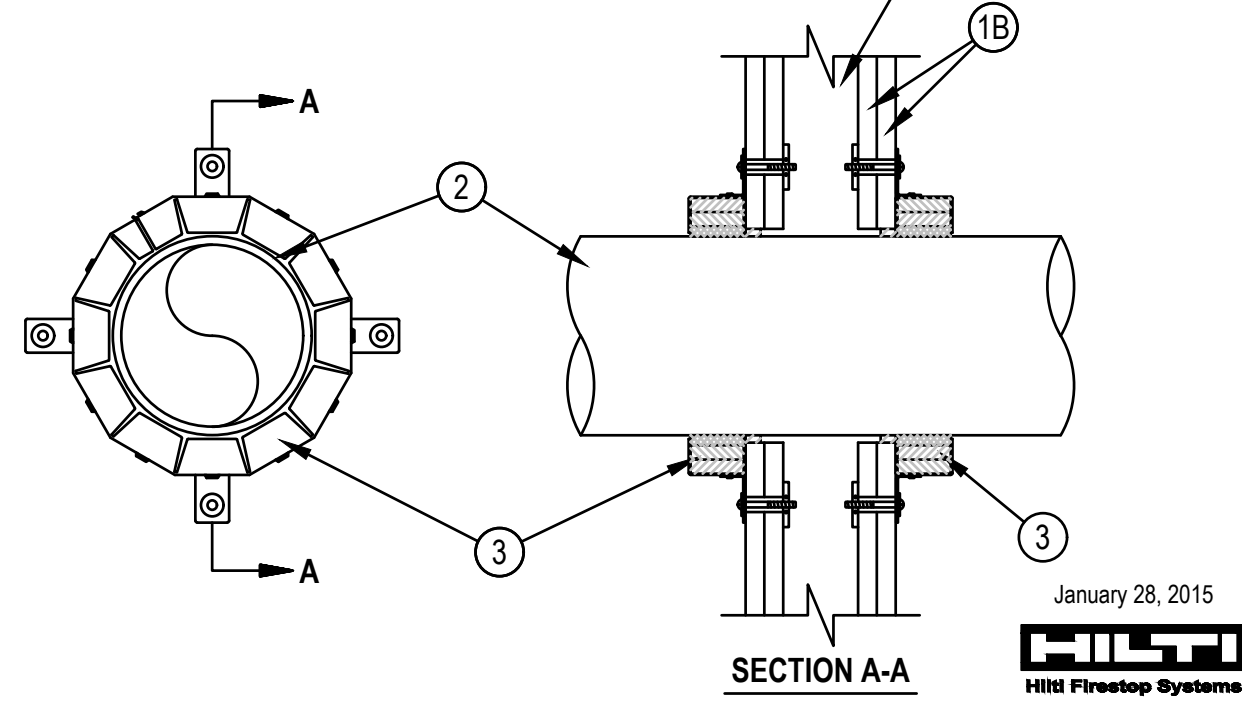
1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, U400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
- B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
- The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
- A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
- C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
- D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).
3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Tapered joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
- See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
- 3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in Item 3 above.
- See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
- HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

GYPSUM/STUD WALL FIRE STOPPING DETAIL NO SCALE INSULATED METALLIC PIPES

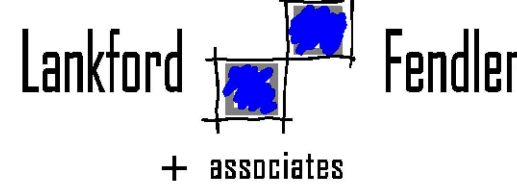


System No. W-L-2078
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient — 3 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

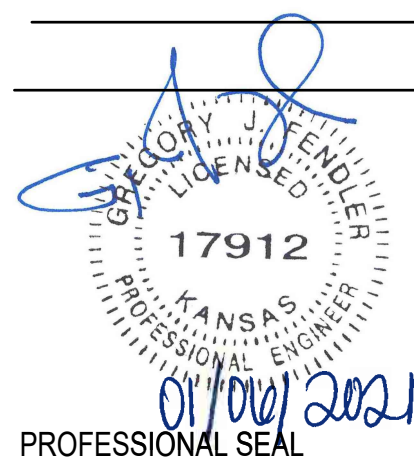


1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, U400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
- B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in. (292 mm).
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
- A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
- C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. (102 mm) diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. (203 or 254 mm) diam pipe is used, T Rating is 0 hr.
3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, three anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes, four anchor hooks for 6 in. (152 mm) diam pipes, ten anchor hooks for 8 in. (203 mm) diam pipes and twelve anchor hooks for 10 in. (254 mm) diam pipes. The anchor hooks are to be secured to the surface of wall with 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. (254 by 38 mm) long drywall or laminate screws with min 3/4 in. (19 mm) steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
- HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC — CP 643 501/5"N, CP 643 632/N, CP 643 903/N, CP 643 1104/N, CP 643 1606/N, CP 644 2008" and CP 644 25010" Firestop Collars
4. Fill, Void or Cavity Material* — Sealant — (Not Shown) — Min 1/2 in. (13 mm) thickness of sealant applied within the annular space for nom 8 in. and 10 in. (203 and 254 mm) diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. (152 mm) diam pipes. A min 1/4 in. (6 mm) thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. (152 mm) diam pipes.
- HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

GYPSUM/STUD WALL FIRE STOPPING DETAIL NO SCALE NON-METALLIC PIPES



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PROFESSIONAL SEAL
M2.02
ISSUE DATE: 06 JANUARY 2021
HOEFER WYSOCKI #: 101201

ROOFTOP UNIT SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	MIN. O.A. CFM	EXT. S.P. (IN.W.G.)	FAN DRIVE TYPE	RPM	COOLING						HEATING-GAS				ELECTRICAL			NOTES																						
								A.M.B. (°F)	E.O.B. (°F)	E.W.B. (°F)	L.O.B. (°F)	L.W.B. (°F)	TOTAL M.B.H.	S.B.S. M.B.H.	E.B.R. SEER	INPUT M.B.H.	OUTPUT M.B.H.	STAGES	VOLT	ø		HZ																					
RTU-1	CARRIER (EXISTING)	48HCEB04	1200	300	0.75	BELT	864	105	77.3	64.7	58.9	57.5	31.9	27.8	-	80	64	2	208	3	60	9																					
RTU-2	CARRIER (EXISTING)	48TCEB08	3060	900	0.75	BELT	816	105	79	66.2	58.6	57.8	84.2	70.5	-	200	160	2	208	3	60	9																					
RTU-3	CARRIER (EXISTING RELOCATED)	48TCEB12	4200	1250	0.75	BELT	967	105	79	66.2	58.8	57.2	115.9	95.5	-	200	160	2	208	3	60	10																					
RTU-4	DAIKIN	DP9015A	5000	1500	0.75	DIRECT	1333	105	78	65	54.4	54.4	160.4	129.1	10.8	300	240	MOD	208	3	60	1 THRU 8																					
RTU-5	CARRIER (EXISTING RELOCATED)	48TCEB07	2175	480	0.75	BELT	1415	105	79	66.2	57.6	57.1	66.3	55.7	-	80	64	2	208	3	60	10																					
RTU-6	DAIKIN	DP9015A	5000	1500	0.75	DIRECT	1333	105	78	65	54.4	54.4	160.4	129.1	10.8	300	240	MOD	208	3	60	1 THRU 8																					
NOTES:																																											
1. PROVIDE WITH WALL MOUNTED 24/7 PROGRAMMABLE THERMOSTAT, COTTONWOOD FILTERS SUCH AS AIR SOLUTION COMPANY MEDIUM DUTY COMMERCIAL GRADE FILTERS, HINGED ACCESS PANELS, DISCONNECT SWITCH, DOWNFLOW CONFIGURATION, CONDENSATE DRAIN TRAP, AND DRAIN PAN OVERFLOW SWITCH TO SHUT DOWN UNIT IF DRAIN BECOMES CLOGGED.																																											
2. PROVIDE WITH 2" MERV 8 FILTERS.																																											
3. PROVIDE WITH HOT GAS REHEAT AND WALL MOUNTED HUMIDISTAT.																																											
4. PROVIDE WITH ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL. INCLUDE WITH BAROMETRIC RELIEF DAMPER UNLESS NOT REQUIRED FOR UNITS EQUIPPED WITH POWERED EXHAUST.																																											
5. PROVIDE WITH BAROMETRIC RELIEF DAMPER.																																											
6. PROVIDE WITH MULTI-SPEED SUPPLY FAN TO VARY FAN SPEED WITH COMPRESSOR STAGING ON UNITS WITH 2 STAGES OF COOLING. ADJUST OUTSIDE AIR DAMPER MINIMUM POSITION FOR HIGH AND LOW FAN SPEEDS.																																											
7. PROVIDE WITH UNIT MOUNTED GFCI OUTLET WITH WEATHERPROOF COVER. OUTLET TO BE FIELD POWERED/WIRED FROM BUILDING POWER.																																											
8. PROVIDE WITH CURB OF HEIGHT REQUIRED TO HAVE THE TOP OF THE CURB A MINIMUM OF 8" ABOVE THE TOP OF THE ROOF SURFACE.																																											
9. EXISTING ROOFTOP UNIT TO REMAIN.																																											
10. EXISTING ROOFTOP UNIT TO BE RELOCATED. PROVIDE WITH NEW 14" ROOF CURB. RE. MECHANICAL PLANS.																																											
*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.																																											

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN.W.G.)	FAN TYPE	RPM	DRIVE	ELECTRICAL			HP/ WATTS	NOTES
									VOLT	ø	HZ		
F-7	GREENHECK	G-101-4	DOWNBLAST	600	0.5	BI	1175	BELT	120	1	60	0.25	1.2
NOTES: 1. EXISTING FAN TO BE RELOCATED. RE. MECHANICAL PLANS. 2. PROVIDE WITH NEW 12" ROOF CURB. 3. REFERENCE FOOD SERVICE PLANS FOR FANS, CURB, CONTROLS, ACCESSORIES, INSTALLATION REQUIREMENTS, ETC. ASSOCIATED WITH THIS FAN. BALANCE FAN TO AIRFLOW IDENTIFIED BY THE FOOD SERVICE CONSULTANT.													

UNIT HEATER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	HEATING (ELEC.)		ELECTRICAL			NOTES
				OUTPUT (MBH)	INPUT (KW)	VOLT	ø	HZ	
UH-1	QMARK	AYH	WALL	12.3	3.6	208	3	60	ALL
NOTES: 1. PROVIDE WITH FULLY RECESSED MOUNTING ENCLOSURE, DISCONNECT SWITCH AND INTEGRAL THERMOSTAT. 2. COLOR SELECTION BY ARCHITECT. PROVIDE COLOR CHART WITH SUBMITTAL.									
*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.									

DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE SIZE (IN.)	NECK SIZE (IN.)	NO. OF SLOTS	FRAME TYPE	FINISH	NOTES
SA1	PRICE	SPD	24x24	8	-	SURFACE	WHITE	1
SA2	PRICE	SPD	24x24	8	-	LAYIN	WHITE	2
SB1	PRICE	APCOR	24x24	10	-	LAYIN	WHITE	2
SD1	PRICE	SD20	6x6	7x4	-	SURFACE	PRIME	1
SD1	PRICE	SD30100	60	9	2	MOD-IN	WHITE	3
RA1	PRICE	APCOR	24x12	22x10	-	LAYIN	WHITE	2
RA2	PRICE	APCOR	24x24	22x22	-	LAYIN	WHITE	2
EA1	PRICE	SS3DL	14x14	12x12	-	SURFACE	PRIME	1
NOTES: 1. PROVIDE WITH OPPOSED BLADE VOLUME NECK DAMPER. 2. ALUMINUM CONSTRUCTION. 3. PROVIDE WITH OPPOSED BLADE VOLUME NECK DAMPER ADJUSTABLE THROUGH FACE OF LINEAR DIFFUSER.								
*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.								

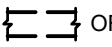
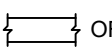
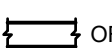
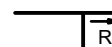
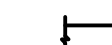
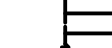
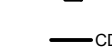
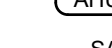
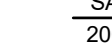
RADIANT HEATER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	HEATING (NG)	ELECTRICAL			NOTES
				INPUT (MBH)	VOLT	ø	HZ	
RH-1	SPACE RAY	WB	SUSPENDED	35	120	1	60	ALL
RH-2	SPACE RAY	WB	SUSPENDED	35	120	1	60	ALL
NOTES: 1. PROVIDE WITH ZONE CONTROLLER MOUNTED IN OWNER APPROVED LOCATION. 2. PROVIDE WITH HEAT SHIELD.								
*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.								

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL PERCUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- C. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- F. MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- G. ALL REMOVED DEVICES THAT ARE BEING REUSED FOR NEW CONSTRUCTION SHALL BE CLEANED OF ALL DIRT AND STORED ON SITE.
- H. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.
- I. MECHANICAL CONTRACTOR SHALL PROVIDE NEW 1" FANN TYPE PLEATED FILTERS ON ALL EQUIPMENT WHICH ARE IN PROJECT SCOPE OF WORK PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.
- J. ALL DUCTWORK, DIFFUSERS, TERMINAL UNITS, ETC. ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- K. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- L. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES. STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- M. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 2000 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

MECHANICAL SYMBOLS

-  OR  EXISTING DUCTWORK TO BE REMOVED
-  OR  EXISTING DUCTWORK TO REMAIN
-  OR  NEW DUCTWORK
-  SUPPLY DUCT
-  RETURN DUCT
-  EXHAUST DUCT
-  SUPPLY DIFFUSER
-  RETURN GRILLE
-  EXHAUST GRILLE
-  RISE OR DROP IN DUCT
-  THERMOSTAT, MOUNT TOP AT 48" AFF.
-  MANUAL VOLUME DAMPER
-  SUPPLY DUCT DOWN
-  SUPPLY DUCT UP
-  RETURN DUCT DOWN
-  RETURN DUCT UP
-  EXHAUST DUCT DOWN
-  EXHAUST DUCT UP
-  WALL MOUNTED DIFFUSER/GRILLE
-  FLEXIBLE DUCT CONNECTION
-  CONDENSATE DRAIN
-  EQUIPMENT TYPE AND DESIGNATION
-  MARK NO. SUPPLY (S.)
-  RETURN (R.), EXHAUST (E.)
-  CFM
-  CONNECT TO EXISTING
-  ACCESS DOOR

JACK STACK LCC
8721 RYCKERT ST
LENEXA, KS 66219

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REVISION DATES:

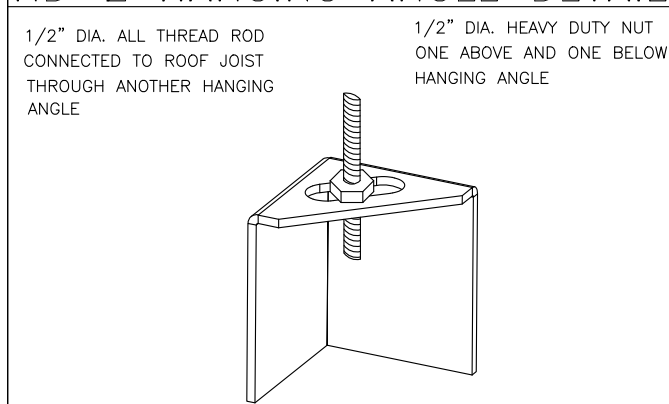
PROFESSIONAL SEAL
17912
KANSAS
HOEFER WYSOCKI ARCHITECTS, LLC

M2.03
ISSUE DATE: 06 JANUARY 2021
HOEFER WYSOCKI #:

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C001 No. 016

MECHANICAL-SCHEDULES,
GENERAL NOTES & SYMBOLS

ND-2 HANGING ANGLE DETAIL



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR. HANGING ANGLE IS PRE-FINISHED AT FACTORY.

HANGING ANGLE LOCATIONS

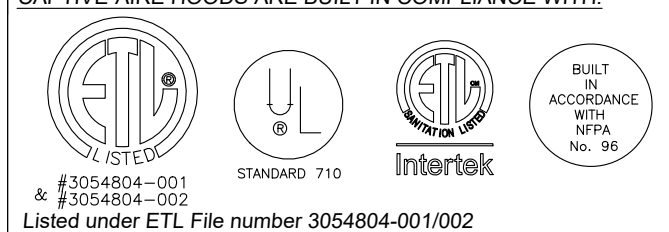
HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24" H)	DIM FROM FRONT (50" H)
CANOPY	4.166"	2.246"	2.246"
ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF	4.166"	2.246"	—
BO-2	4.166"	2.246"	—
VHB/VHB-G	36"X36"	42"X42"	48"X48"
FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"

CALCULATIONS UTILIZED

EXHAUST CFM=LENGTH OF HOOD X CFM/IN/FT. (LOAD)
SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED CFM
TOTAL DUCT AREA=144 X (FPM)²
DUCT LENGTH= DUCT DEPTH
* CAPTIVE-AIRE DUCT CONNECTION REARS ARE CALCULATED BASED ON EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 300-400 FPM.

BUILDING CODES

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:



CLEARANCE TO COMBUSTIBLES

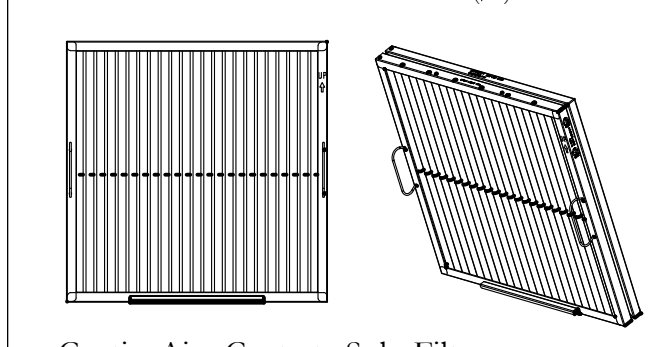
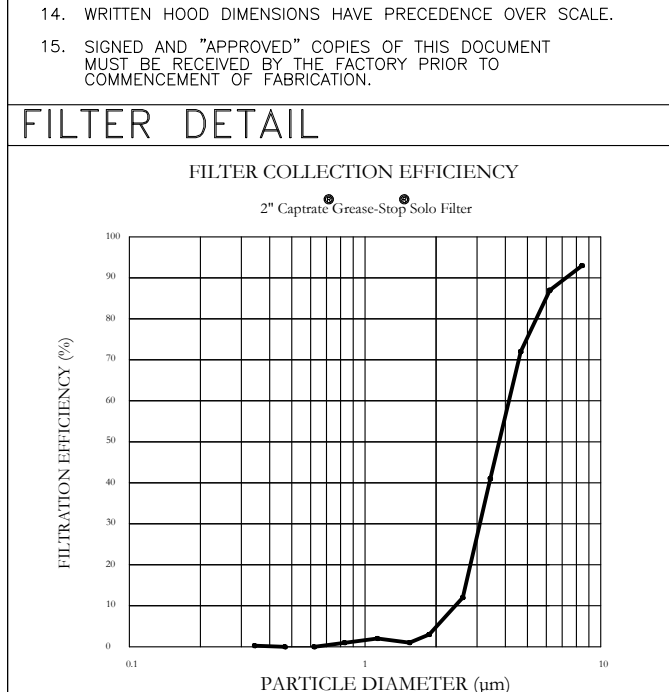
CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

GENERAL NOTES

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
 2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
 3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
 4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
 5. COOKING EQUIPMENT TO CHECKOFF IN EVENT OF FIRE.
 6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
 7. ALL LIGHTS FURNISHED SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
 8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
 9. SEWAGE RESTRIANTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
 10. INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTERPRETATION, AND ADMINISTRATION OF CODE REQUIREMENTS AND SET PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.
- BALANCE**
11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
 12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO OUTDOOR AIR.
 13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.
- ADDITIONAL**
14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
 15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE SUBMITTED TO THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

FILTER DETAIL

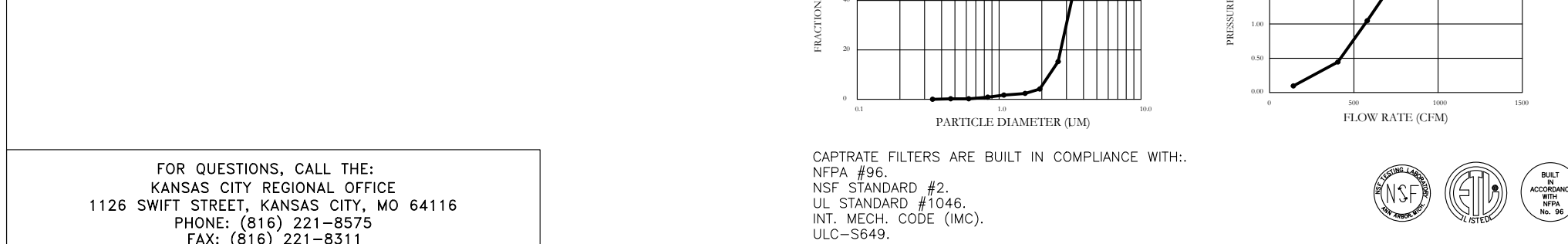


HOOD INFORMATION — JOB#4633218											
HOOD NO.	TAG	MODEL	MANUFACTURER	LENGTH	MAX. COOKING TEMP.	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH. CFM	EXHAUST PLENUM	HOOD CONSTRUCTION
1	ITEM 19	3624	CAPTIVE-AIRE	6' 8"	600 DEG	1	HEAVY	225	1500	4" 12" 1500 1910 -0.788"	1200 430 SS WHERE EXPOSED
2	ITEM 20	3624	CAPTIVE-AIRE	6' 8"	600 DEG	1	HEAVY	225	1500	4" 12" 1500 1910 -0.788"	1200 430 SS WHERE EXPOSED
3	ITEM 21	3624	CAPTIVE-AIRE	6' 8"	600 DEG	1	HEAVY	225	1500	4" 12" 1500 1910 -0.788"	1200 430 SS WHERE EXPOSED
4	ITEM 22	6024	CAPTIVE-AIRE	8' 6"	600 DEG	1	HEAVY	225	1912	4" 14" 1912 1789 -0.786"	1530 430 SS WHERE EXPOSED
5	ITEM 69	6024	CAPTIVE-AIRE	11' 1"	700 DEG	1	MEDIUM	200	2217	4" 14" 2217 2074 -1.264"	1774 430 SS WHERE EXPOSED
6	ITEM 90	6024	CAPTIVE-AIRE	7' 0"	700 DEG	1	EXTRA-HEAVY	450	3150	4" 18" 3150 1783 -1.440"	2575 430 SS WHERE EXPOSED
7	ITEM 104	5424	CAPTIVE-AIRE	12' 8"	600 DEG	1	HEAVY	235	2938	4" 12" 1469 1870 -0.756"	2600 430 SS WHERE EXPOSED
8	ITEM 140	5424	CAPTIVE-AIRE	4' 6"	450 DEG	1	MEDIUM	175	788	4" 8" 788 2257 -0.856"	630 430 SS WHERE EXPOSED
9	ITEM 143	5424	CAPTIVE-AIRE	4' 6"	450 DEG	1	MEDIUM	175	700	4" 8" 700 2005 -0.676"	600 430 SS WHERE EXPOSED
10	ITEM 237	4624	CAPTIVE-AIRE	8' 10"	700 DEG	1	N/A	150	1325	4" 14" 1325 1238 -0.140"	0 354 SS 100% ALONE

HOOD INFORMATION											
HOOD NO.	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE
1	ITEM 19	CAPTIVATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
2	ITEM 20	CAPTIVATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
3	ITEM 21	CAPTIVATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
4	ITEM 22	CAPTIVATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED	NO	LEFT	12"x60"x24"
5	ITEM 69	CAPTIVATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	3	RECESSED	NO	LEFT	12"x60"x24"
6	ITEM 90	CAPTIVATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
7	ITEM 104	CAPTIVATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	RECESSED	NO		
8	ITEM 140	CAPTIVATE SOLO FILTER	3	16"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
9	ITEM 143	CAPTIVATE SOLO FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED	NO	RIGHT	12"x54"x24"
10	ITEM 237						0				

HOOD OPTIONS		
HOOD NO.	TAG	OPTION
1	ITEM 19	FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT, BACK
		FINISHED BACK - IS/REV INSTALL 80.00" LONG, (FILTERS TO THE BACK).
2	ITEM 20	FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT, BACK
		FINISHED BACK - IS/REV INSTALL 80.00" LONG, (FILTERS TO THE BACK).
3	ITEM 21	FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT, BACK
		FINISHED BACK - IS/REV INSTALL 80.00" LONG, (FILTERS TO THE BACK).
4	ITEM 22	FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT,
		BACKSPLASH 122.00" HIGH X 157.00" LONG 430 SS VERTICAL,
5	ITEM 69	RIGHT SIPSPLASH 80.00" HIGH X 60.00" LONG 430 SS VERTICAL,
		RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
6	ITEM 90	BACKSPLASH - INSIDE CORNER 80.00" HIGH X 2.00" LEG LENGTH 430 SS VERTICAL,
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
7	ITEM 104	RISER SENSOR INSTALL SN DBL.
		FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT,
8	ITEM 140	BACKSPLASH 122.00" HIGH X 181.00" LONG 430 SS VERTICAL,
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
9	ITEM 143	RISER SENSOR INSTALL SN DBL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
10	ITEM 237	FIELD WRAPPER 24.00" HIGH FRONT, LEFT,
		BACKSPLASH 122.00" HIGH X 270.00" LONG 430 SS VERTICAL,
11	ITEM 237	INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
12	ITEM 237	RISER SENSOR INSTALL SN DBL.
		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
13	ITEM 237	FIELD WRAPPER 24.00" HIGH FRONT, RIGHT,
		RISER SENSOR INSTALL SN DBL.
14	ITEM 237	RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT,
15	ITEM 237	BACKSPLASH 122.00" HIGH X 99.00" LONG 430 SS VERTICAL,
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
16	ITEM 237	LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		RISER SENSOR INSTALL SN DBL.
17	ITEM 237	FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT,
		BACKSPLASH 122.00" HIGH X 99.00" LONG 430 SS VERTICAL,
18	ITEM 237	RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		RISER SENSOR INSTALL SN DBL.
19	ITEM 237	LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 24.00" HIGH FRONT, LEFT, RIGHT,

PERFORATED SUPPLY PLENUM(S)											
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	WING LENGTH	DA	CFM	SP	REMARKS
1	ITEM 19	Front	80"	16"	6"	MUA	12" 24"	600	0.162"		
2	ITEM 20	Front	80"	16"	6"	MUA	12" 24"	600	0.162"		
3	ITEM 21	Front	80"	16"	6"	MUA	12" 24"	600	0.162"		
4	ITEM 22	Front	115"	14"	6"	MUA	12" 24"	600	0.162"		
5	ITEM 69	Front	145"	14"	6"	MUA	8" 36"	591	0.157"		
6	ITEM 90	Front	84"	20"	6"	MUA	8" 36"	591	0.157"		
7	ITEM 104	Front	150"	18"	6"	MUA	12" 28"	650	0.161"		
8	ITEM 140	Front	54"	14"	6"	MUA	8" 36"	591	0.157"		
9	ITEM 143	Front	60"	12"	6"	MUA	8" 36"	600	0.139"		



FOR QUESTIONS, CALL THE KANSAS CITY REGIONAL OFFICE
1126 SWIFT STREET, KANSAS CITY, MO 64116
PHONE: (816) 221-8575
FAX: (816) 221-8311

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with No Exception Taken ☐
Revise and Resubmit ☐

SIGNATURE _____
Your Title _____ Date _____

*** NOTE ***
ALL WALLS AND STRUCTURES THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD NOT ALLOWED.

*** NOTE ***
HOOD MANUFACTURER RECOMMENDS NO RETURNS OR 4-WAY DIFFUSERS WITHIN 10 FEET OF HOOD IN ALL DIRECTION.

*** NOTE ***
MAKEUP AIR SHALL BE DELIVERED INTO SPACE IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.

PATENT NUMBERS											
AC-PSP (UNITED STATES) - US PATENT 7963630 B2. AC-PSP (CANADA) - CA PATENT 2820099. AC-PSP (ISLAND CANADA) - CA PATENT 2203330.											

UTILITY (CABINETS)											
HOOD NO.	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE
1	ITEM 19	CAPTIVATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
2	ITEM 20	CAPTIVATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
3	ITEM 21	CAPTIVATE SOLO FILTER	4	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
4	ITEM 22	CAPTIVATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED	NO	LEFT	12"x60"x24"
5	ITEM 69	CAPTIVATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	3	RECESSED	NO	LEFT	12"x60"x24"
6	ITEM 90	CAPTIVATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
7	ITEM 104	CAPTIVATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	RECESSED	NO		
8	ITEM 140	CAPTIVATE SOLO FILTER	3	16"	16"	85% SEE FILTER SPEC	2	RECESSED	NO		
9	ITEM 143	CAPTIVATE SOLO FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED	NO	RIGHT	12"x54"x24"
10	ITEM 237						0				

SPECIFICATION: CAPTIVATE GREASE-STOP SOLO FILTER											
THE CAPTIVATE GREASE-STOP SOLO 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 6" HIGH DEEP HOOD CHANNELS.											
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE COMPONENTS WHEN ASSEMBLED.											
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES AND 95% OF GREASE PARTICLES GREYER MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.											
THE CAPTIVATE GREASE-STOP SOLO AND TESTED TO ASTM STANDARD ASTM F2518-05.											
MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.											
EFFICIENCY VS PARTICLE DIAMETER											
PRESSURE DROP VS FLOW RATE											

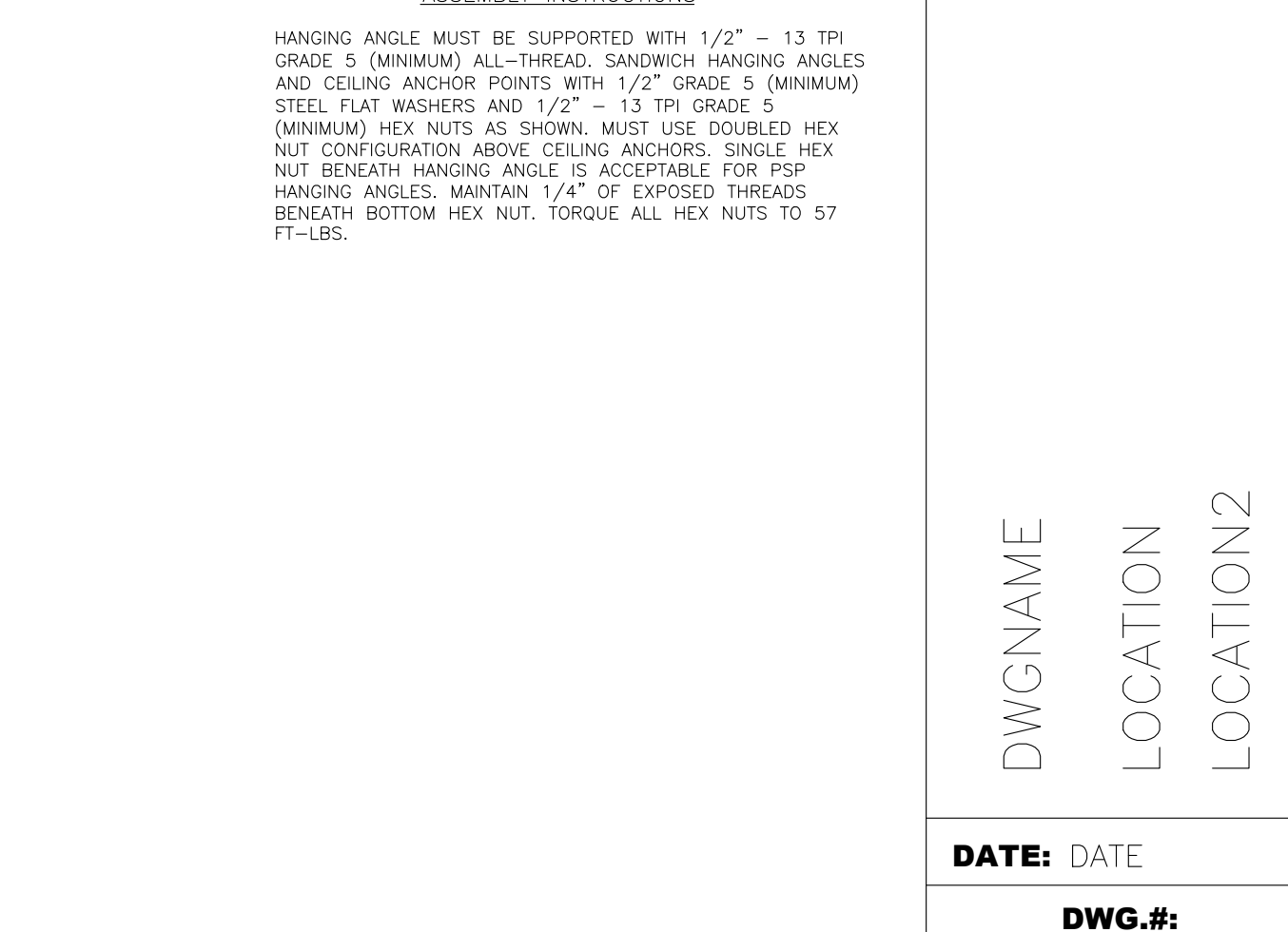
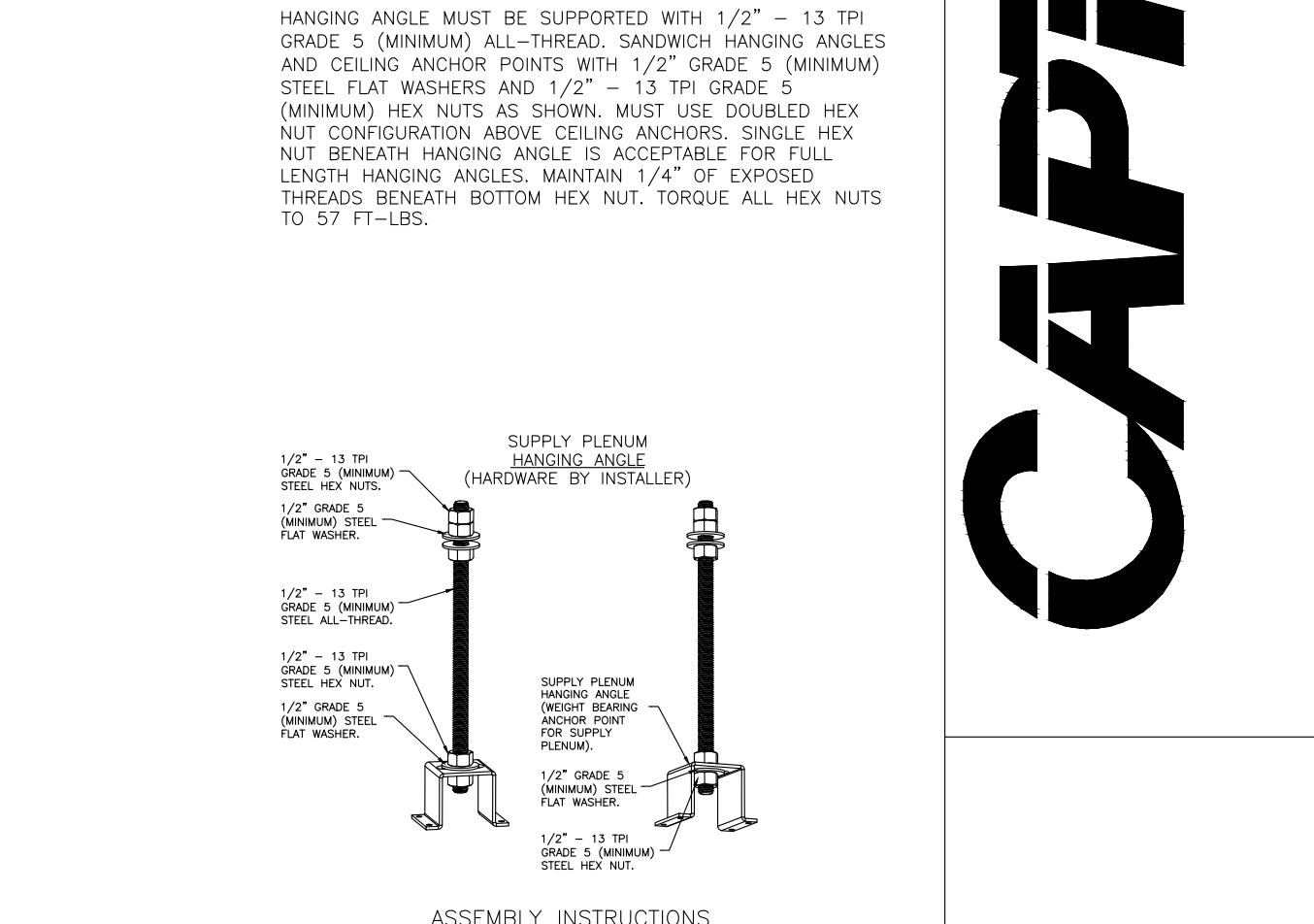
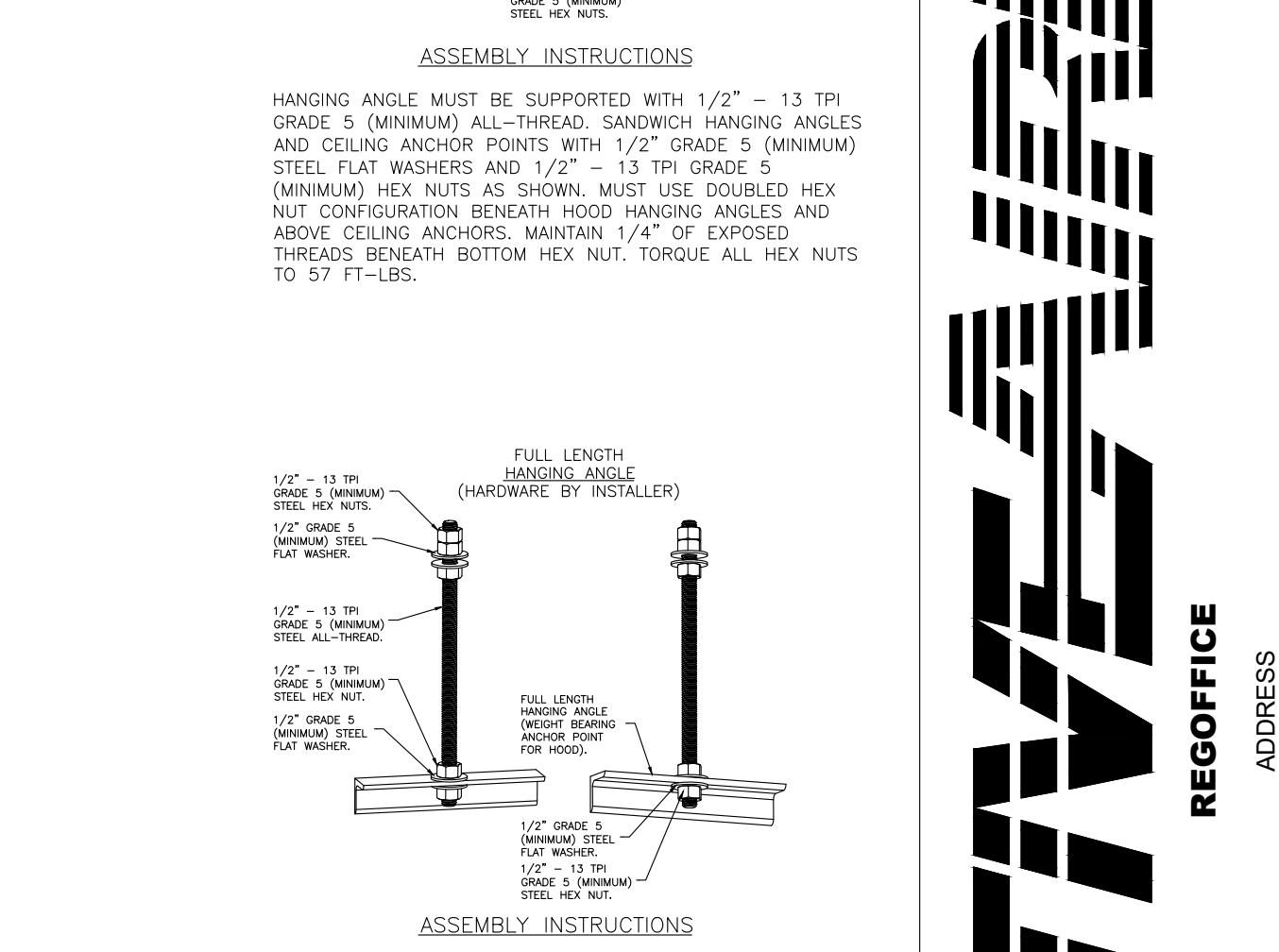
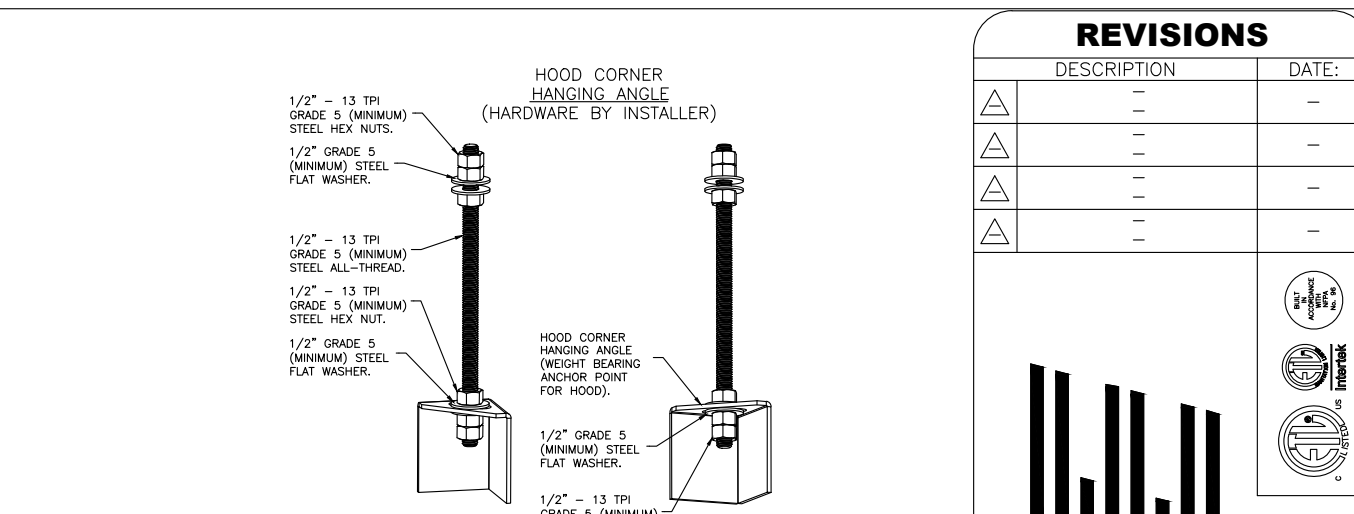


SYSTEM DESIGN VERIFICATION (SDV)

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.



DATE: DATE

DWG.#: DWG#

DRAWN BY: DRAWNBV

SCALE: SCALE

SHEETTYPE

SHEET NO. SHEET#

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Lankford Fendler + associates

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501
Phone: 816.221.4171 Fax: 816.221.1429
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KITCHEN EQUIPMENT DRAWINGS

HOEFER WYSOCKI

11460 Tomahawk Creek Parkway, Suite 400, Leawood, Kansas 66211
P: 913.307.3700 F: 913.307.3710 www.hoeferwysocki.com

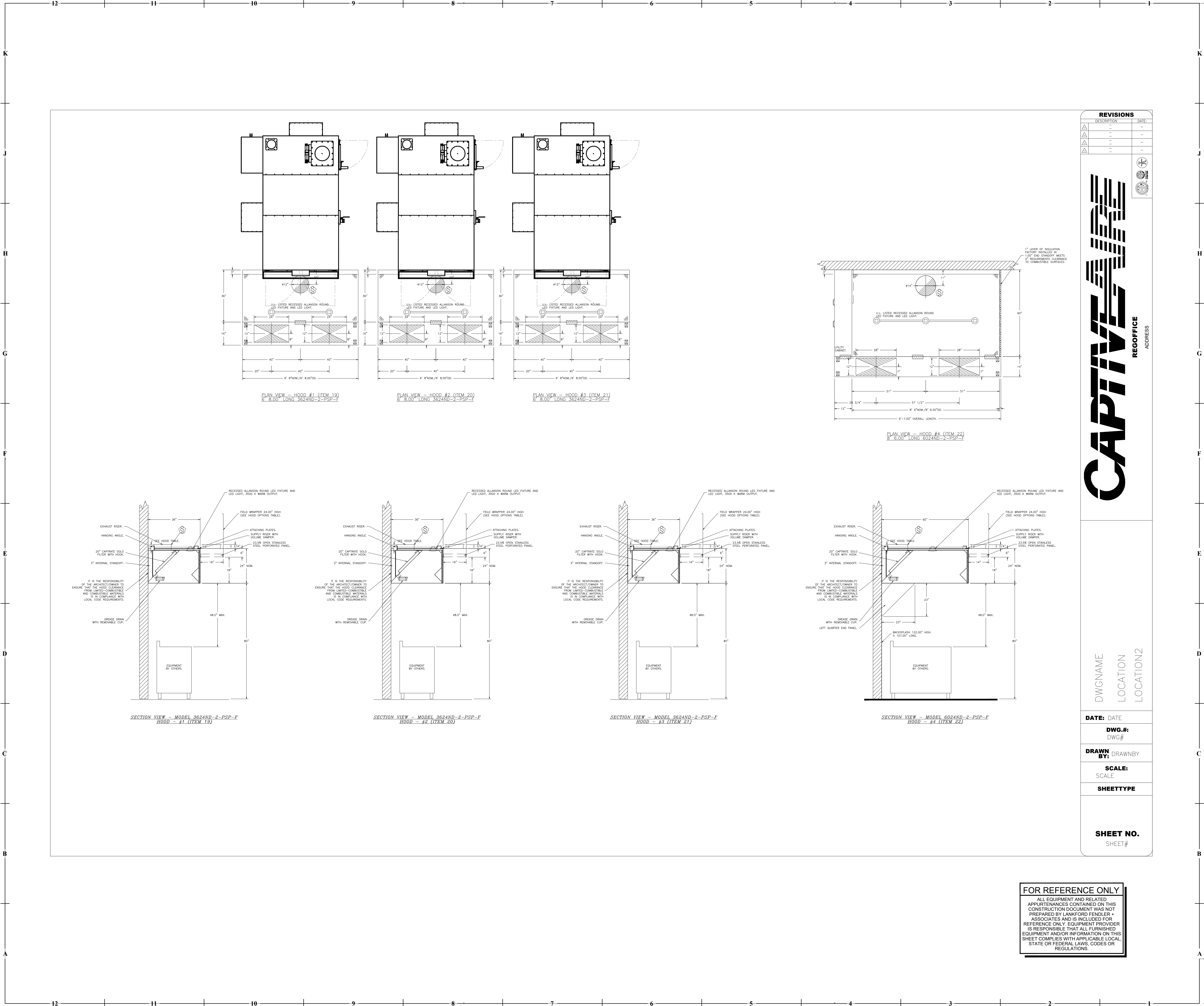
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DESCRIPTION	DATE

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ADDRESS

DWGNAME

LOCATION

LOCATION2

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DWG.#: DWG#

DRAWN BY: DRAWNBV

SCALE: SCALE

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Lankford

Fendler

+ associates

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KITCHEN EQUIPMENT DRAWINGS

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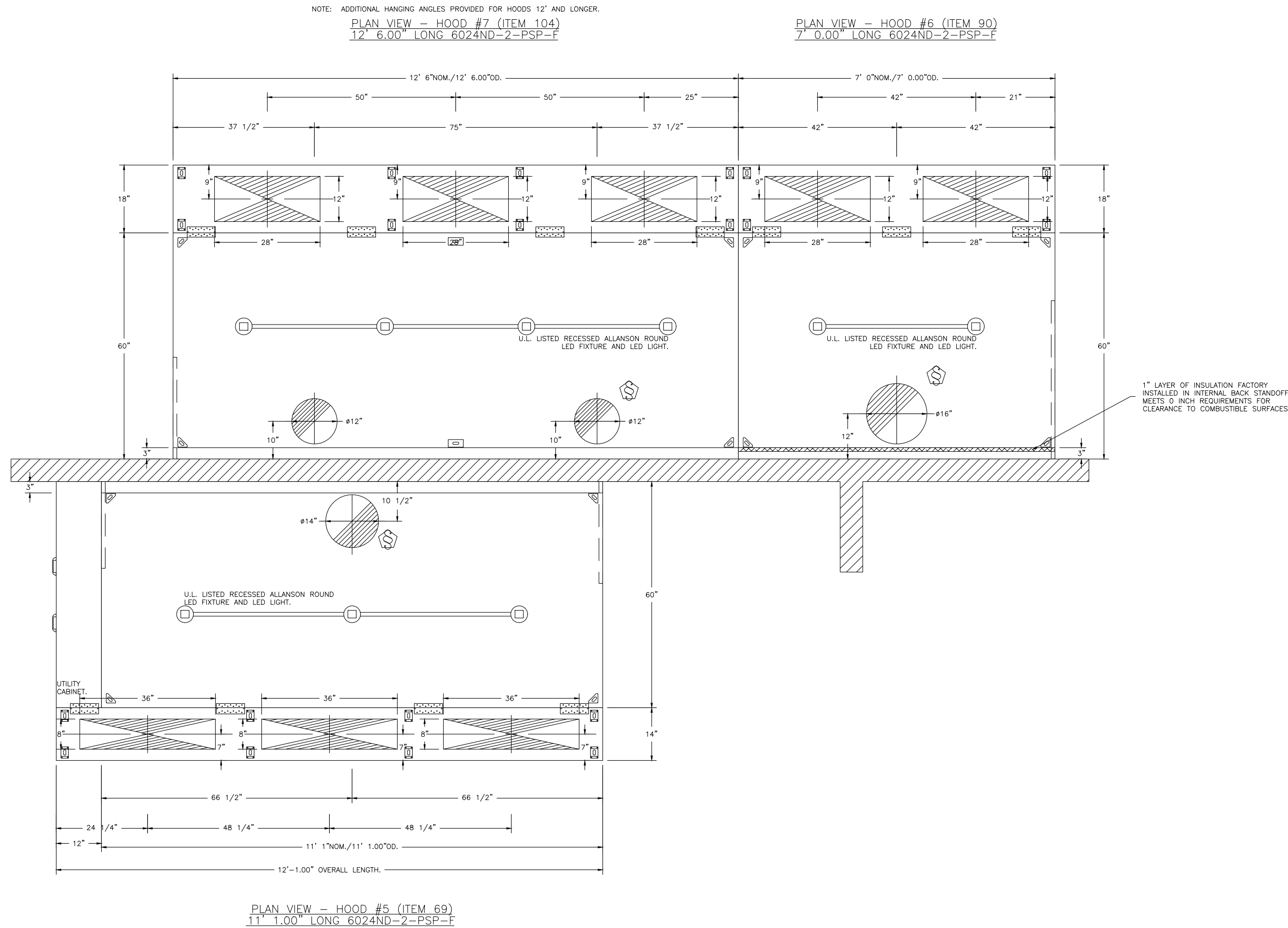
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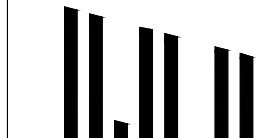
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REVISIONS	
DESCRIPTION	DATE



CAPTIVE

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ADDRESS

DWGNAME
LOCATION
LOCATION2

DATE: DATE

DWG.#:
DWG#

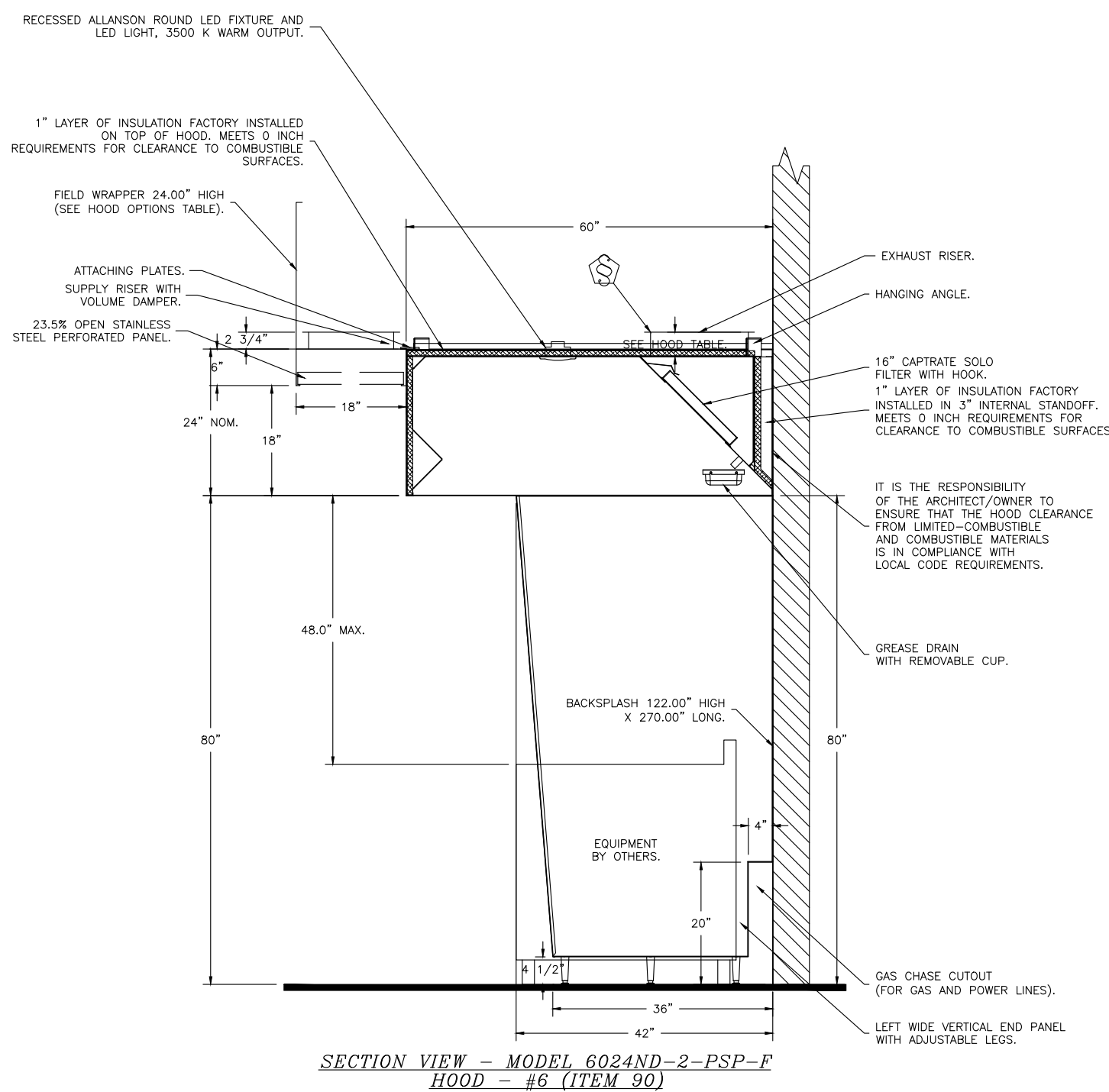
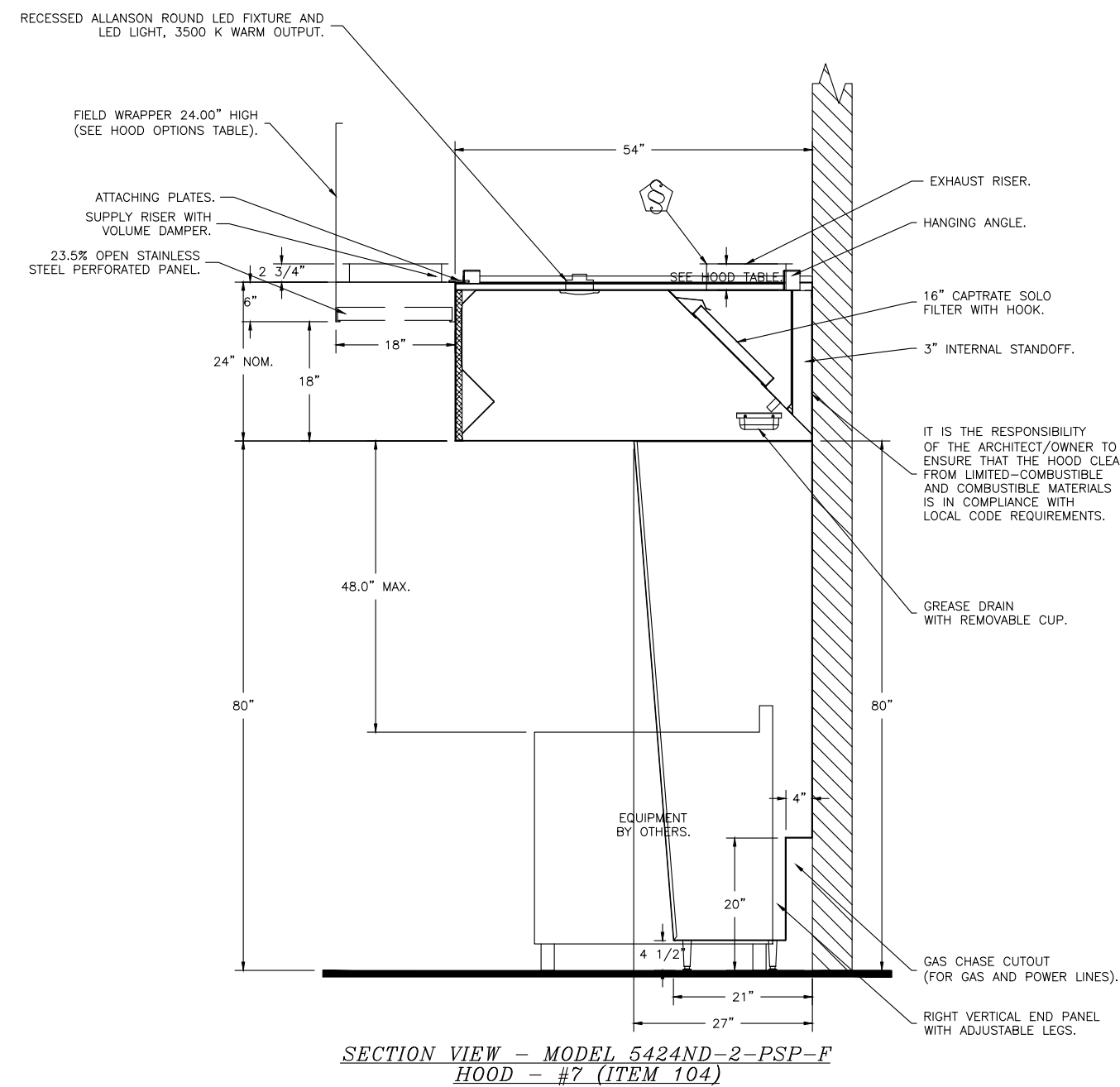
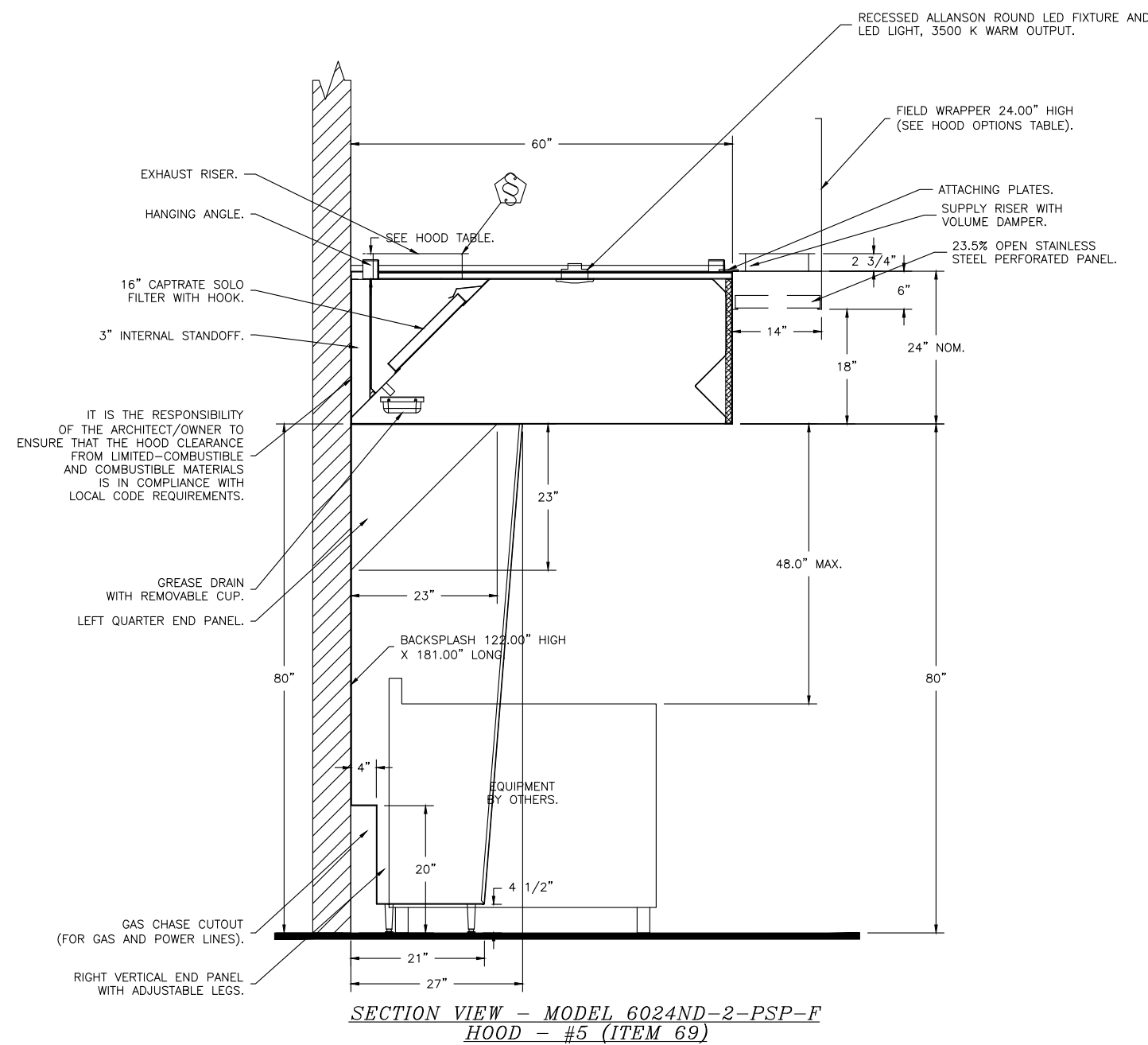
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BY:

DRAWNBY
SCALE:

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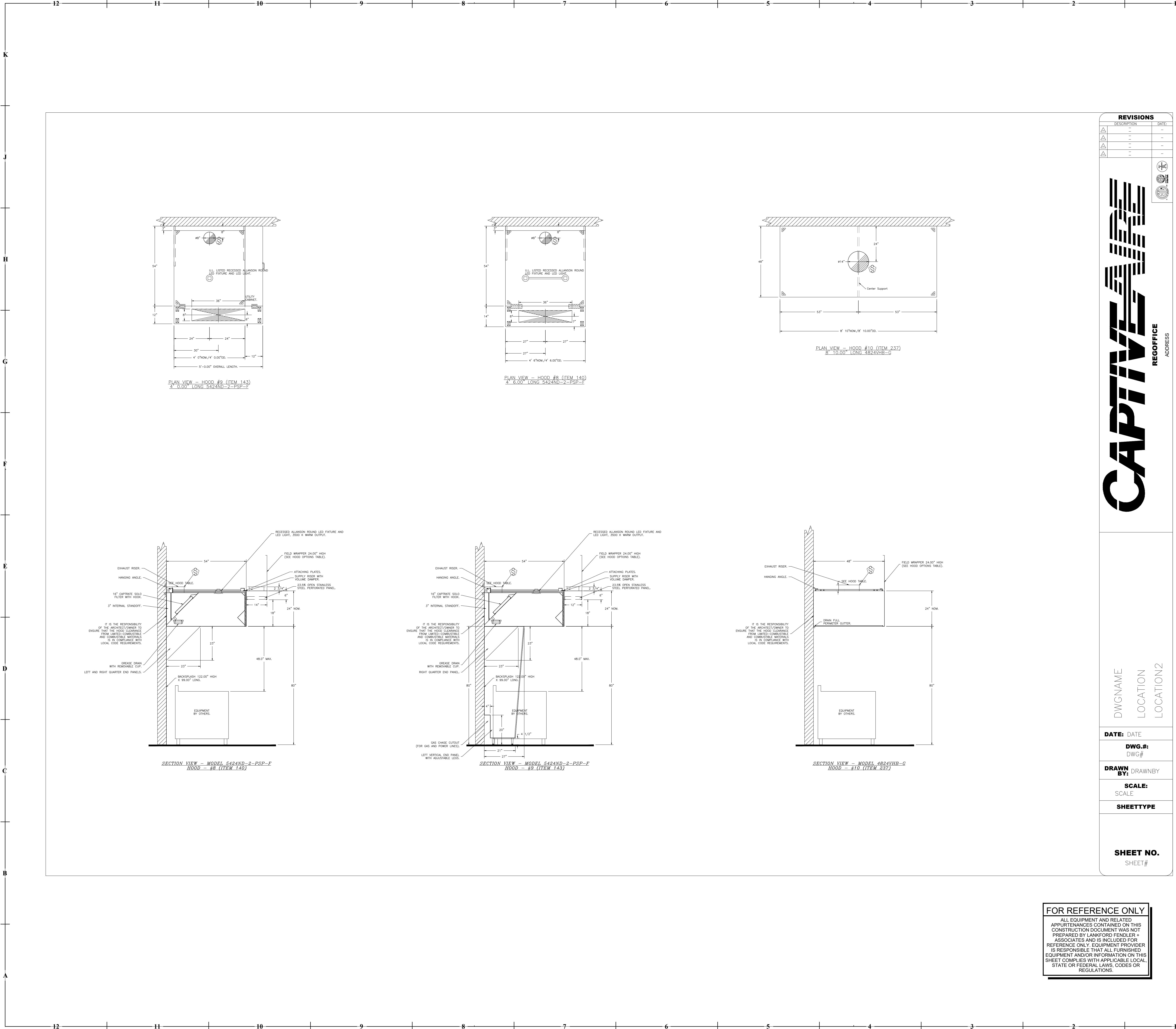
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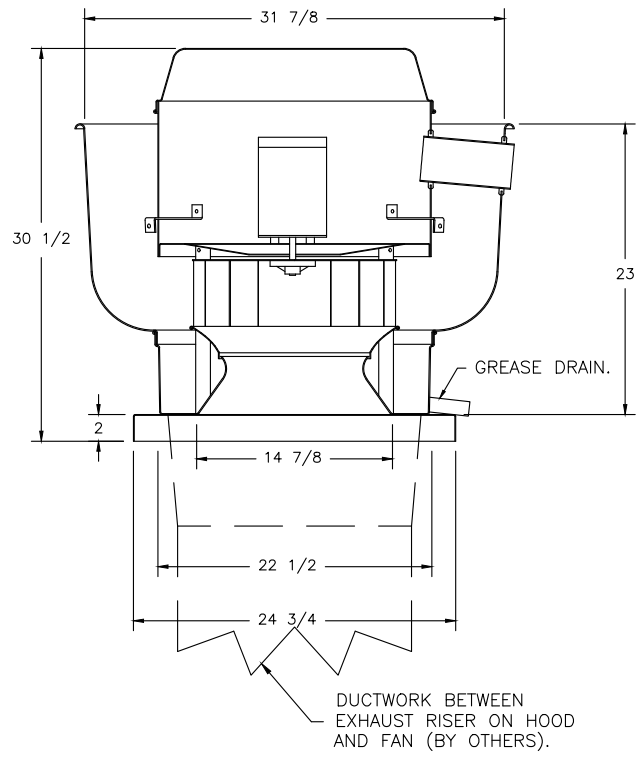
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KITCHEN EQUIPMENT
 DRAWINGS

FAN #11 DUBSFEA - EXHAUST FAN (ITEM 19.1)

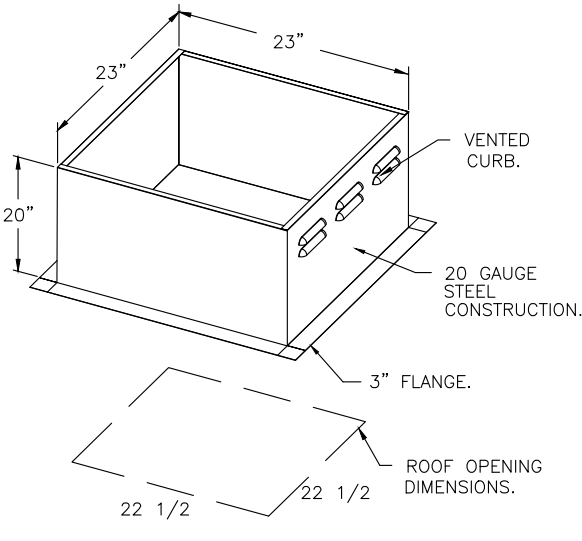


- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
 - ROOF MOUNTED FAN
 - RESTAURANT MODEL
 - UL705 AND UL762 AND ULG-5645
 - VARIABLE SPEED CONTROL
 - INTERNAL WIRING
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
 - HIGH HEAT OPERATION 300°F (149°C)
 - GREASE CLASSIFICATION TESTING
 - NEMA 3R SAFETY DISCONNECT SWITCH

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

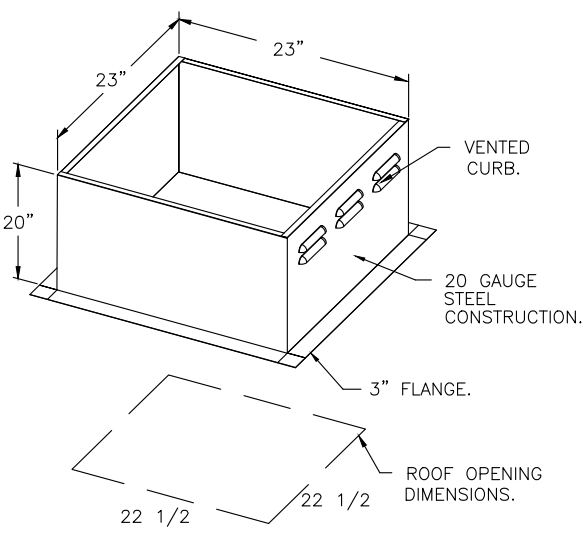
ABNORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX
EDM WIRING PACKAGE - PWM SIGNAL FROM EDM'S PREMIER (TELED MOTORS), COW ROTATION



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

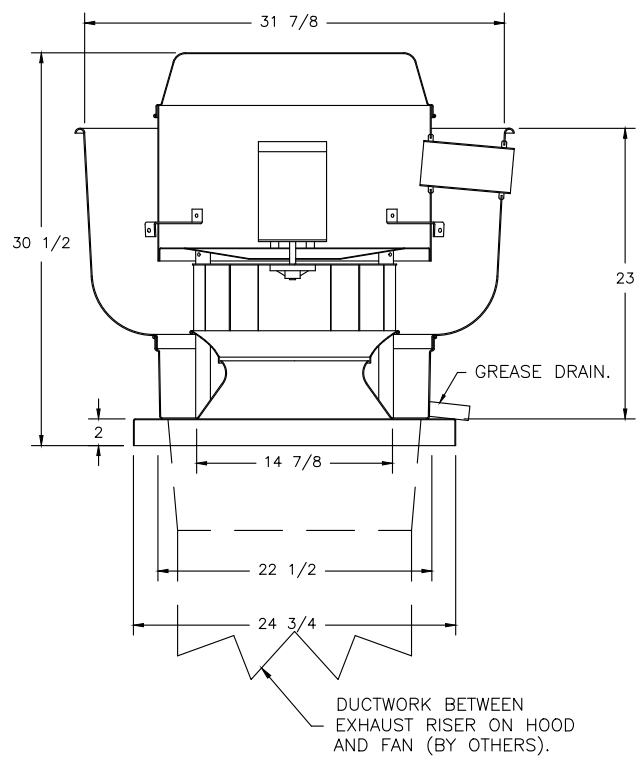
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

FAN #12 DUBSFEA - EXHAUST FAN (ITEM 20.1)



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
 - ROOF MOUNTED FAN
 - RESTAURANT MODEL
 - UL705 AND UL762 AND ULG-5645
 - VARIABLE SPEED CONTROL
 - INTERNAL WIRING
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
 - HIGH HEAT OPERATION 300°F (149°C)
 - GREASE CLASSIFICATION TESTING
 - NEMA 3R SAFETY DISCONNECT SWITCH

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

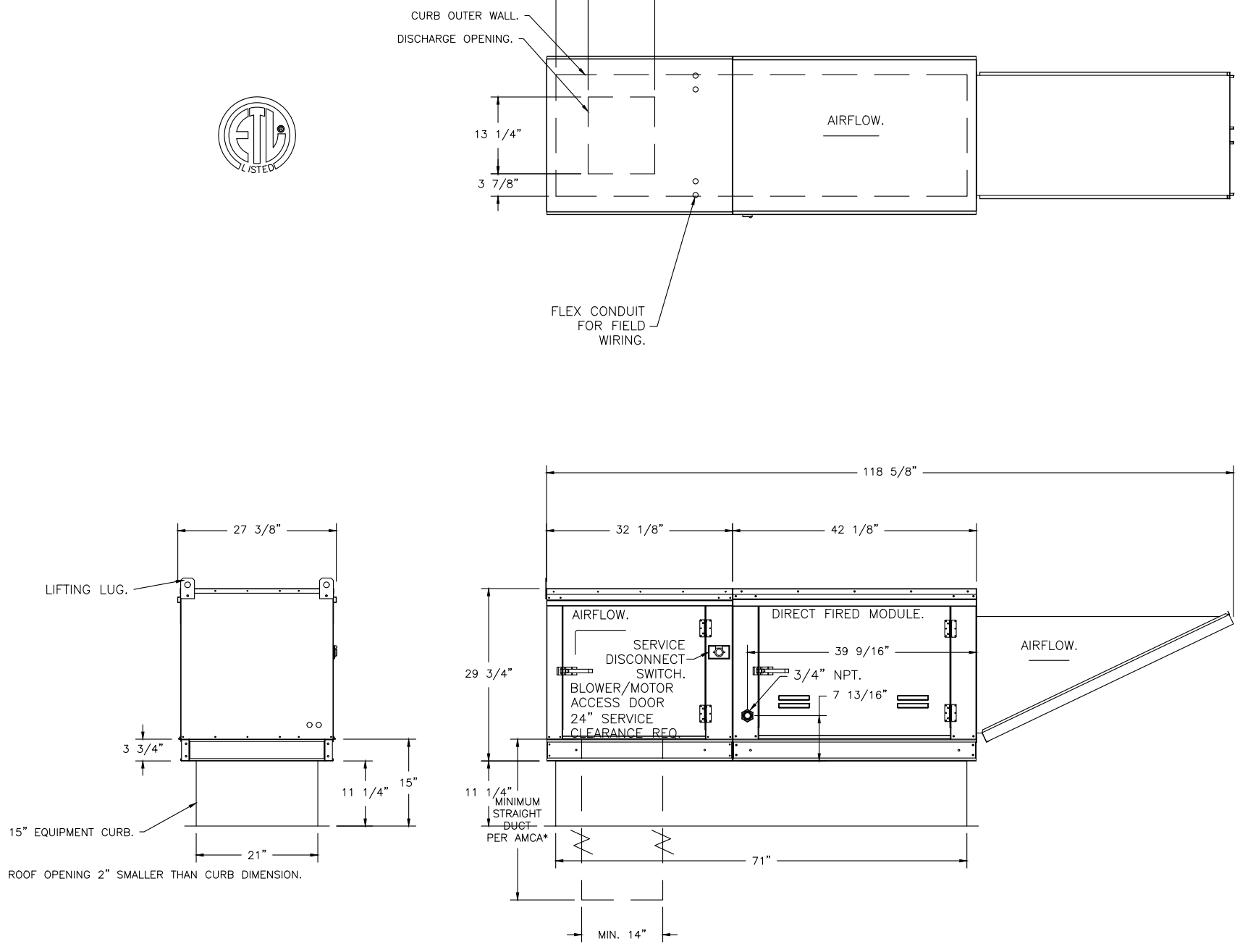
ABNORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX
EDM WIRING PACKAGE - PWM SIGNAL FROM EDM'S PREMIER (TELED MOTORS), COW ROTATION

- FAN #11 A1-D2550-182 - HEATER (NEMA-1 (19/20))
1. DIRECT GAS FIRED HEATER MADE UP OF AIR UNIT WITH 18" DIRECT DRIVE FAN.
 2. INTAKE HOOD WITH EX FILTER.
 3. DOWN EXHAUSTANCE - AIR FLOW RIGHT -> LEFT.
 4. COILING INTERIOR HEAT - HEAT COIL - 150V COILS. LOCK OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 5. MOTORIZED BACK DRAFT DAMPER 18" X 18" FOR SIZE 1. STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAF, STANDARD DAMPERED CONSTRUCTION, 3/4" HUB FLANGE, LOW LEAKAGE, THERMOSTAT ACTUATOR INCLUDED.
 6. LOW FIRE START - ALLOW THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 7. GAS PRESSURE GAUGE - 1/2" TO 1/4" DIAMETER, 1/4" THREAD SIZE.
 8. GAS PRESSURE GAUGE - 1/2" TO 1/4" DIAMETER, 1/4" THREAD SIZE.
 9. PRESSURE SWITCH - 1/2" TO 1/4" DIAMETER, 1/4" THREAD SIZE.
 10. WIRING DOUBLE WIRE W/SHIELD CORD ASSEMBLY (OPTIONAL/REVIEW SECTION).

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AREA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RIGIDLY TYPED, RIGIDLY BROW WITH TURNING VANES. FLEXIBLE DUCTWORK AND SPREAD THROUGH SQUARE BULK CLOSING SHOULD NOT BE USED. ANY TURNING ACTION TAKEN BY 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.

SUPPLY SIDE HEATER INFORMATION:
WATER TEMPERATURE = 120° F. TEMP. RISE = 60° F.
BTU'S CALCULATED OFF ACTUAL AIR IDENTITY.
INPUT BTU'S AT ALTITUDE OF 0.0 FT. = 181551.
OUTPUT BTU'S AT ALTITUDE OF 0.0 FT. = 181551.
INPUT BTU'S AT ALTITUDE OF 1044 FT. = 169489.
OUTPUT BTU'S AT ALTITUDE OF 1044 FT. = 174423.



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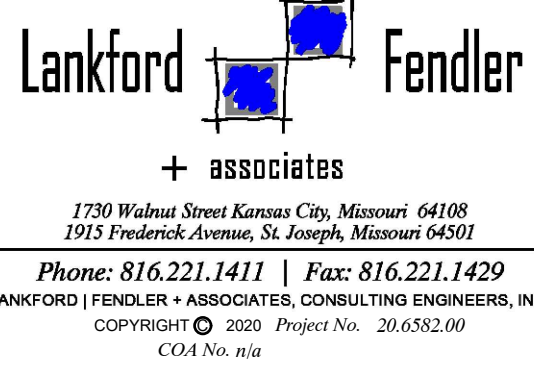
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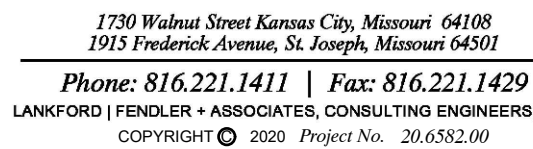
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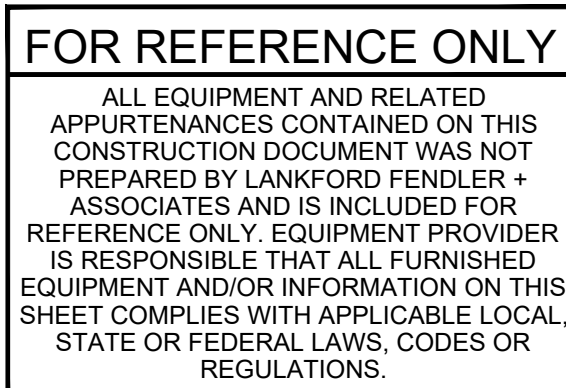
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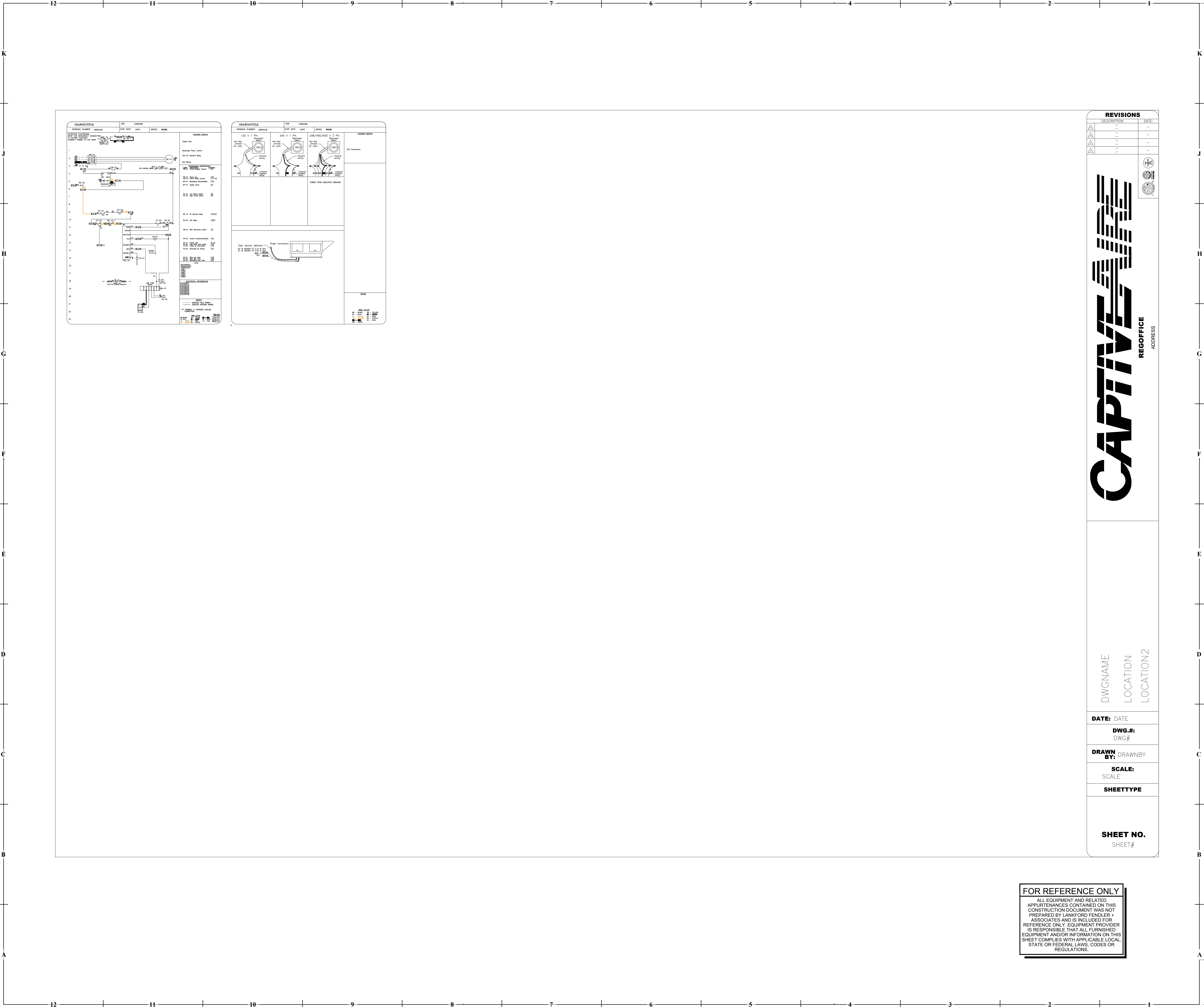
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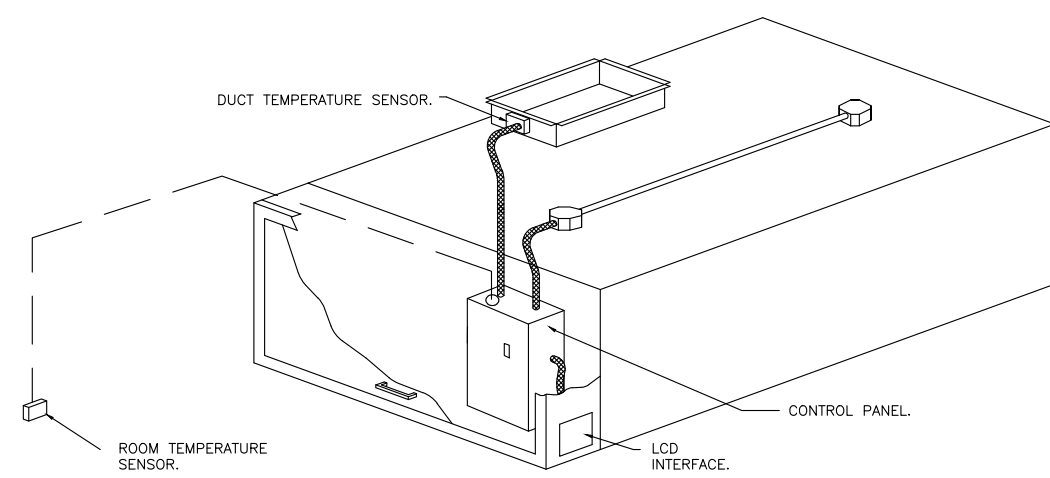
ELECTRICAL PARTS LIST - J08663322				SWITCHES		PACKAGES		FANS CONTROLLED				
ITEM	PAG	PACKAGE #	DESCRIPTION	LOCATION	QUANTITY	UNIT	OPTION	FIG. REF.	TOOL #	QTY	MP	NOTES
1	ITEM 30	DOV-2122	WALL MOUNT IN SS BOX	08 - SHIP LOCATION N/ - SHIP LOCATION	2 2	Light						
							SMART CONTROLS DOV	ITEM 20.1	DOV401	1,000	20.0	6.9
								ITEM 20.2	DOV401	1,000	20.0	6.9
								ITEM 21.1	DOV401	1,000	20.0	6.9
								ITEM 21.2	DOV401	1,000	20.0	6.9
2	ITEM 31	DOV-2122	UTILITY CABINET LEFT	08 - SHIP LOCATION N/ - SHIP LOCATION	2 2	Light						
							SMART CONTROLS DOV	ITEM 22.1	DOV401	1,000	20.0	6.9
								ITEM 22.2	DOV401	1,000	20.0	6.9
								ITEM 23.1	DOV401	3,500	20.0	8.4
3	ITEM 69.2	DOV-1111	UTILITY CABINET LEFT HODD 5.5	05 - UTILITY CABINET LEFT HODD 5.5	1 1	Light						
							SMART CONTROLS DOV	ITEM 24.1	DOV401	3,500	20.0	8.4
								ITEM 24.2	DOV401	3,500	20.0	8.4
								ITEM 25.1	DOV401	3,500	20.0	8.4
								ITEM 25.2	DOV401	3,500	20.0	8.4
4	ITEM 88	DOV-2122	WALL MOUNT IN SS BOX	08 - SHIP LOCATION N/ - SHIP LOCATION	2 2	Light						
							SMART CONTROLS DOV	ITEM 26.1	DOV401	3,500	20.0	8.4
								ITEM 26.2	DOV401	3,500	20.0	8.4
								ITEM 27.1	DOV401	3,500	20.0	8.4
								ITEM 27.2	DOV401	3,500	20.0	8.4
5	ITEM 143.2	DOV-2122	UTILITY CABINET RIGHT	08 - SHIP LOCATION N/ - SHIP LOCATION	2 2	Light						
							SMART CONTROLS DOV	ITEM 28.1	DOV401	3,500	20.0	8.4
								ITEM 28.2	DOV401	3,500	20.0	8.4
								ITEM 29.1	DOV401	3,500	20.0	8.4
								ITEM 29.2	DOV401	3,500	20.0	8.4

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DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).

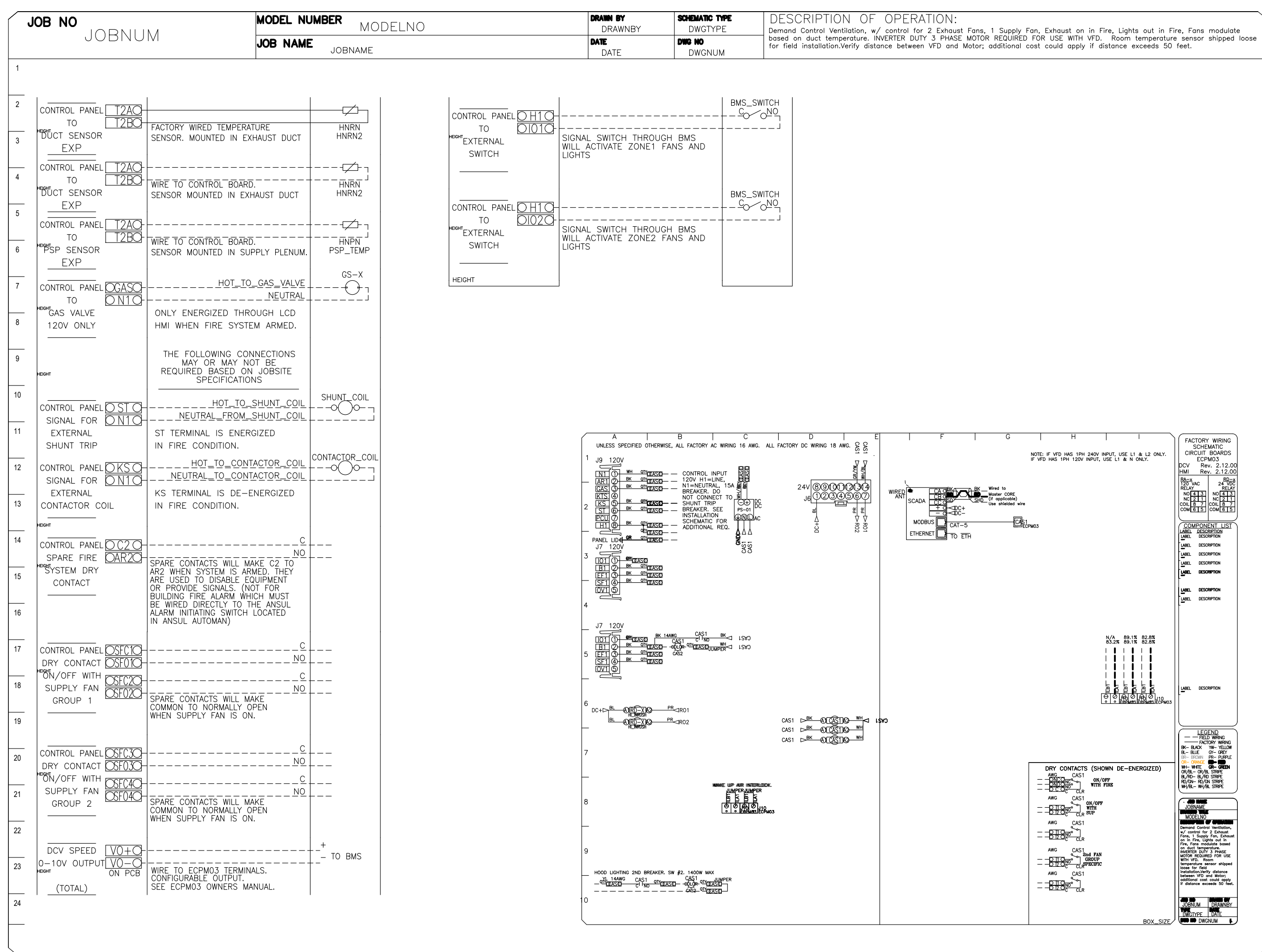
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND INSTALLED INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR ALUMINUM.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED OPERATING TEMPERATURE SETPOINT AND DUCT TEMPERATURES SENSORS. THIS FUNCTIONAL SHALL MEET THE REQUIREMENTS OF MC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE HOOD EXHAUST COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFD) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MONITOR THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON CURRENT, DUCT TEMPERATURE, EXHAUST FAN INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE REFERENCE SPEED.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MONITOR SUPPLY FAN VFD SPEED AND ADJUST TO ALL EXHAUST FAN SPEEDS TO MAINTAIN THE EXHAUST FAN AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LOOD COOKING OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING PREP MODE SHALL DISABE THE SETPOINT FANS AND PROVIDE AN EXHAUST FAN CONTROL THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE EXHAUST FAN RUN-TIME SETTING. DISABE AN ELECTRIC FANS WAVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTACT SHALL NOT BE USED TO DISABE AN ELECTRIC FAN(S) UNDER VFD CONTROL).
- AN LCO INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING:
 - a. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - b. EXHAUST FAN SPEED RESET FOR ELECTRONIC GAS VALVES (NO RESET RELEVANT REQUIRED).
 - c. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - d. EXHAUST FAN SPEED DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - e. MEASURED RANGE TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - f. EXHAUST LOW VOLTAGE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - g. AN ENERGY SAVING INDICATOR THAT UTILIZES MEASURED kWh FROM THE VFDs.



SEQUENCE OF OPERATIONS:
THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY

- NOTE:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CHAMBER OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A PRESET TEMPERATURE DIFFERENCE. THE SYSTEM WILL NOT OPERATE IF THE DIFFERENCE IN TEMPERATURE EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC, THESE TERMS REFER TO WHETHER A VARIABLE TEMPERATURE DIFFERENCE IS REQUIRED TO ACTIVATE THE FAN. A STATIC SYSTEM IS ONE EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC," THESE WILL MODULATE THE FAN SPEEDS TO MAINTAIN THE SET POINT. A STATIC SYSTEM WILL RUN AT A CONSTANT VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC," FANS WILL RUN AT A SET SPEED FOR THE ENTIRE TIME THE SYSTEM IS OPERATING. THE SYSTEM WILL NOT OPERATE TO EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN ECCS 403.2.3.
- MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN MMI.
- SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE SCHEDULES AVAILABLE TO THE USER TO SET UP A TIME SCHEDULE THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN. THE SYSTEM WILL NOT RUN DURING UNOCCUPIED TIMES. THE SYSTEM WILL RUN DURING UNOCCUPIED TIMES, DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNNECESSARY FAN SPEEDS AND EXHAUST FLOW.
- OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE, SUCH AS BMS OR HARD-WIRED INTERLOCK.
- FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON AND EXHAUST FLOW WILL INCREASE. THE HOOD MAKEUP AIR FAN SHUTDOWNS TO A SIGNAL, WILL BE USED FOR ACTUATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS GAS SHUT OFF VALVE WILL BE USED TO SHUT OFF FUEL GAS SUPPLY TO THE HOOD.

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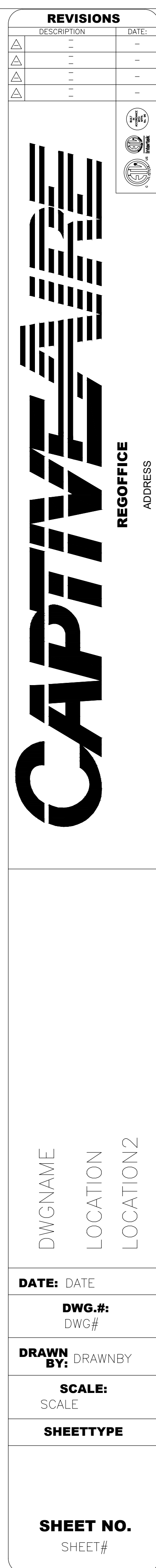
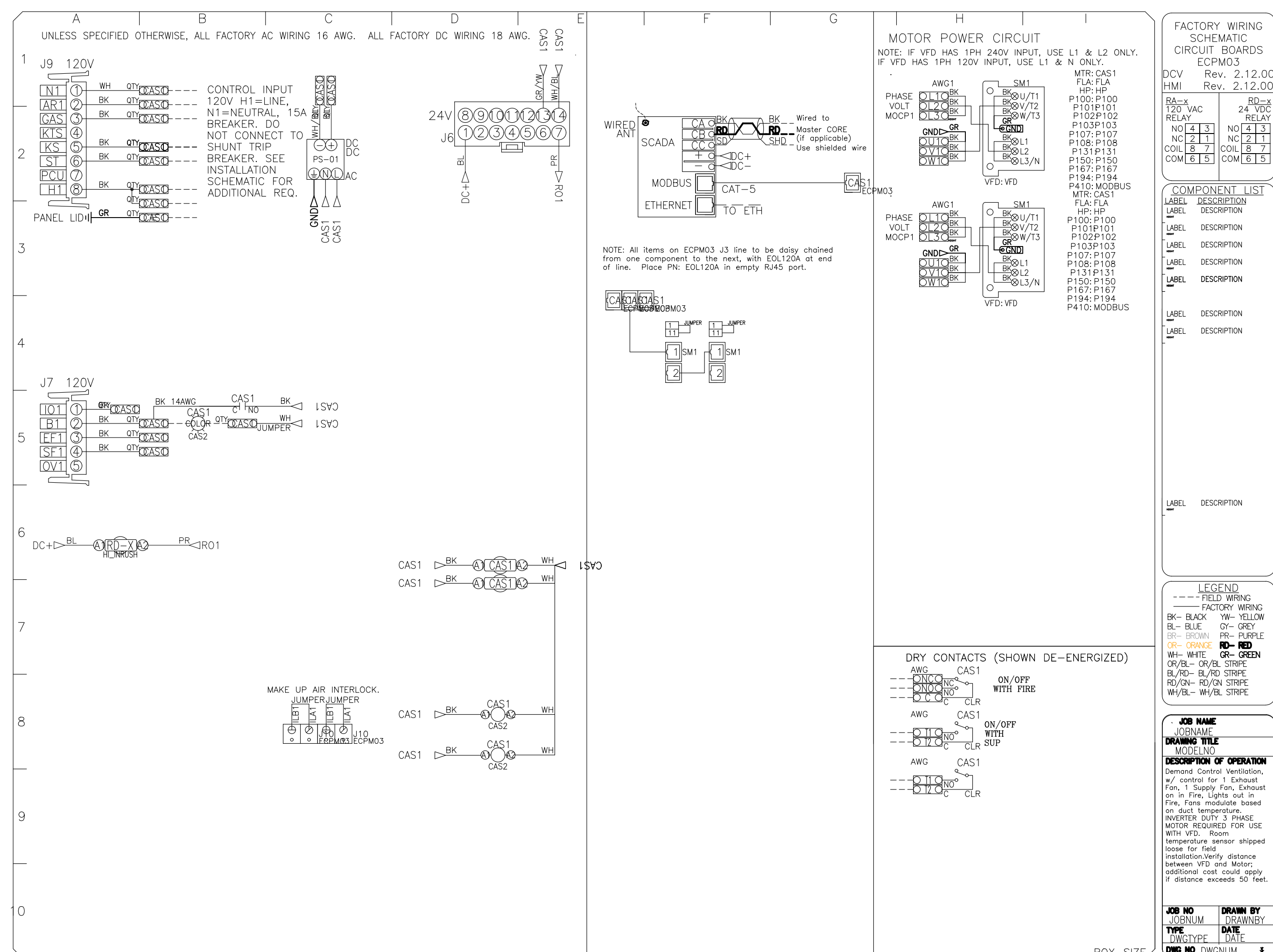
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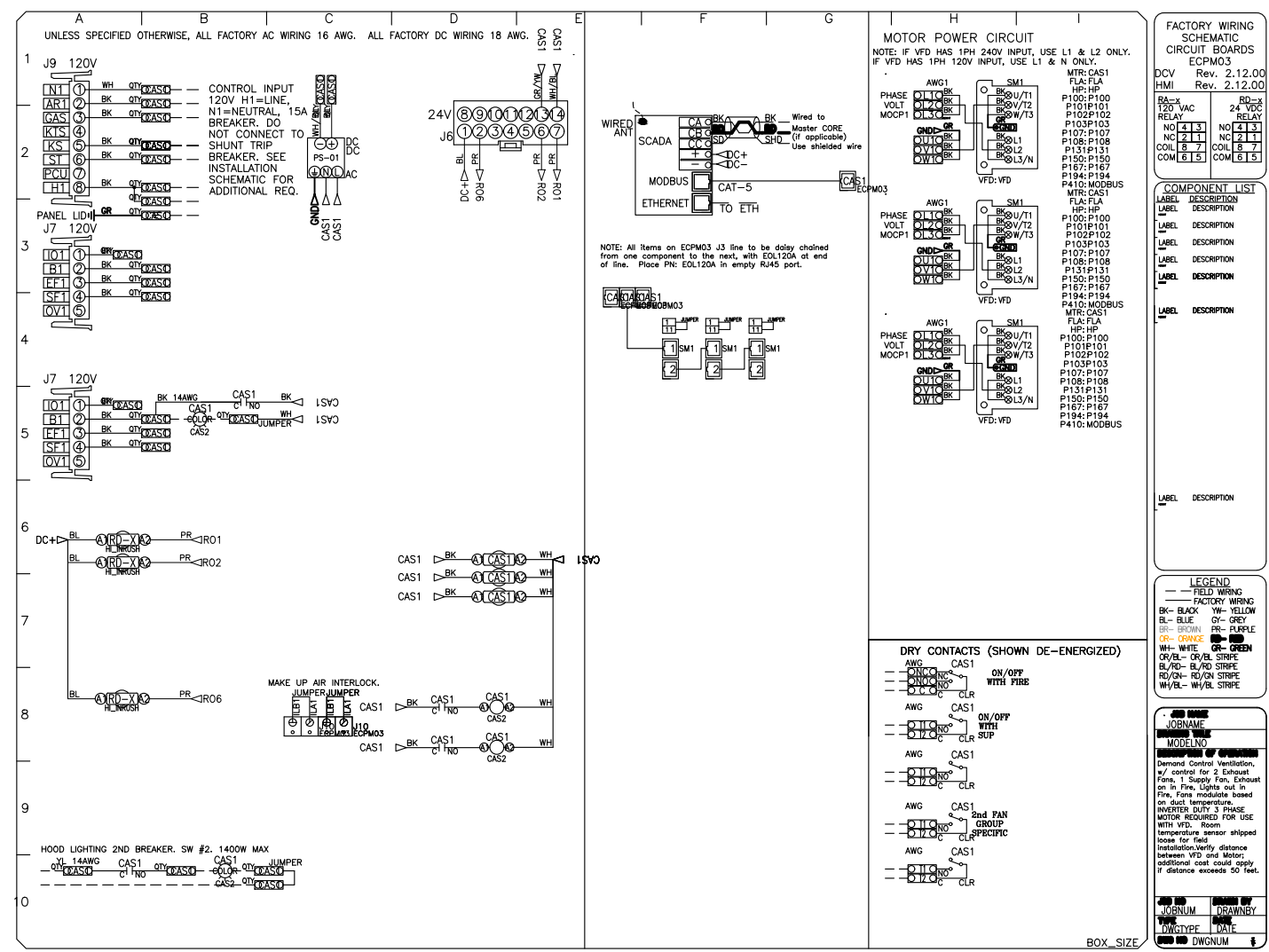
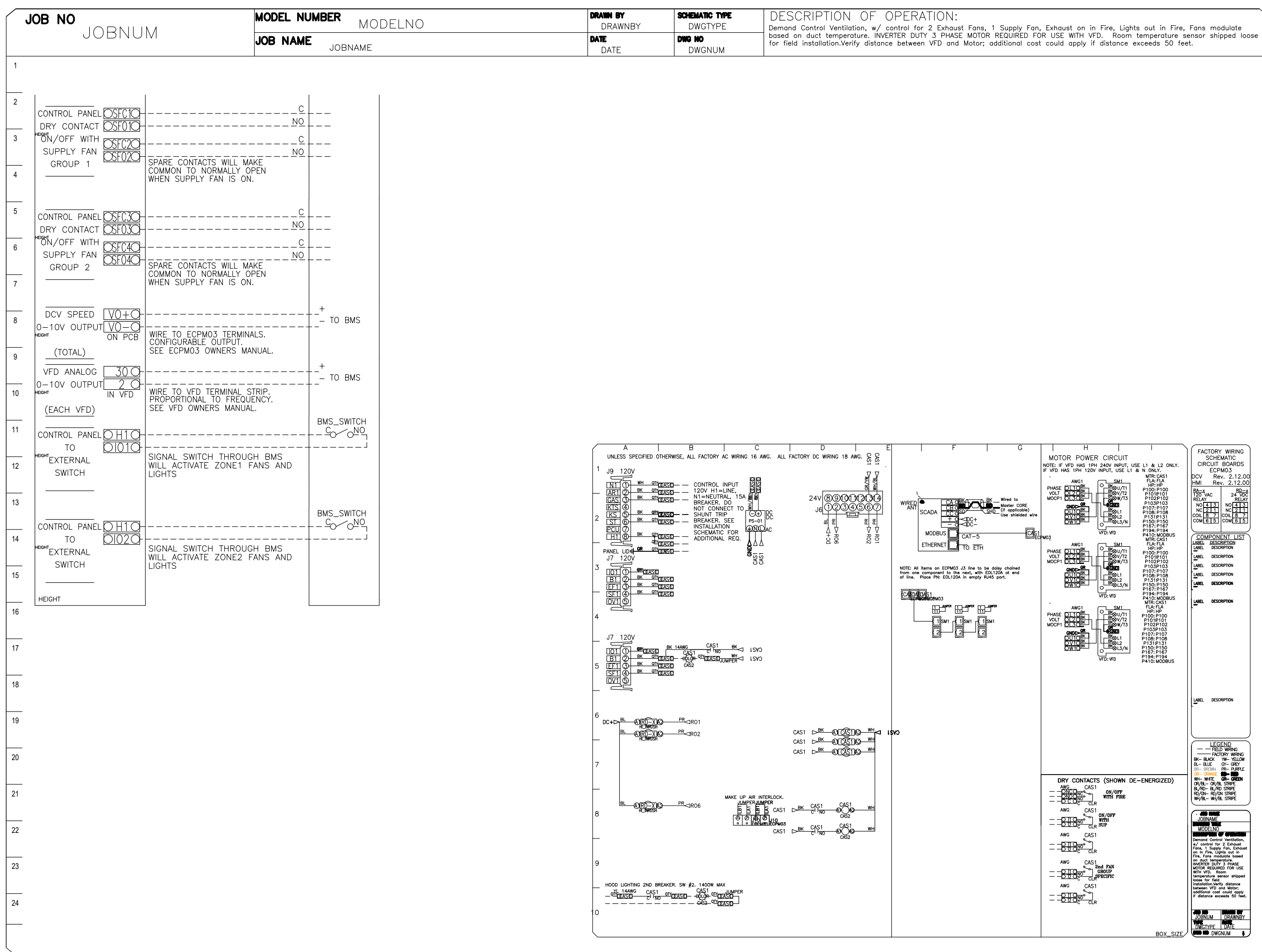
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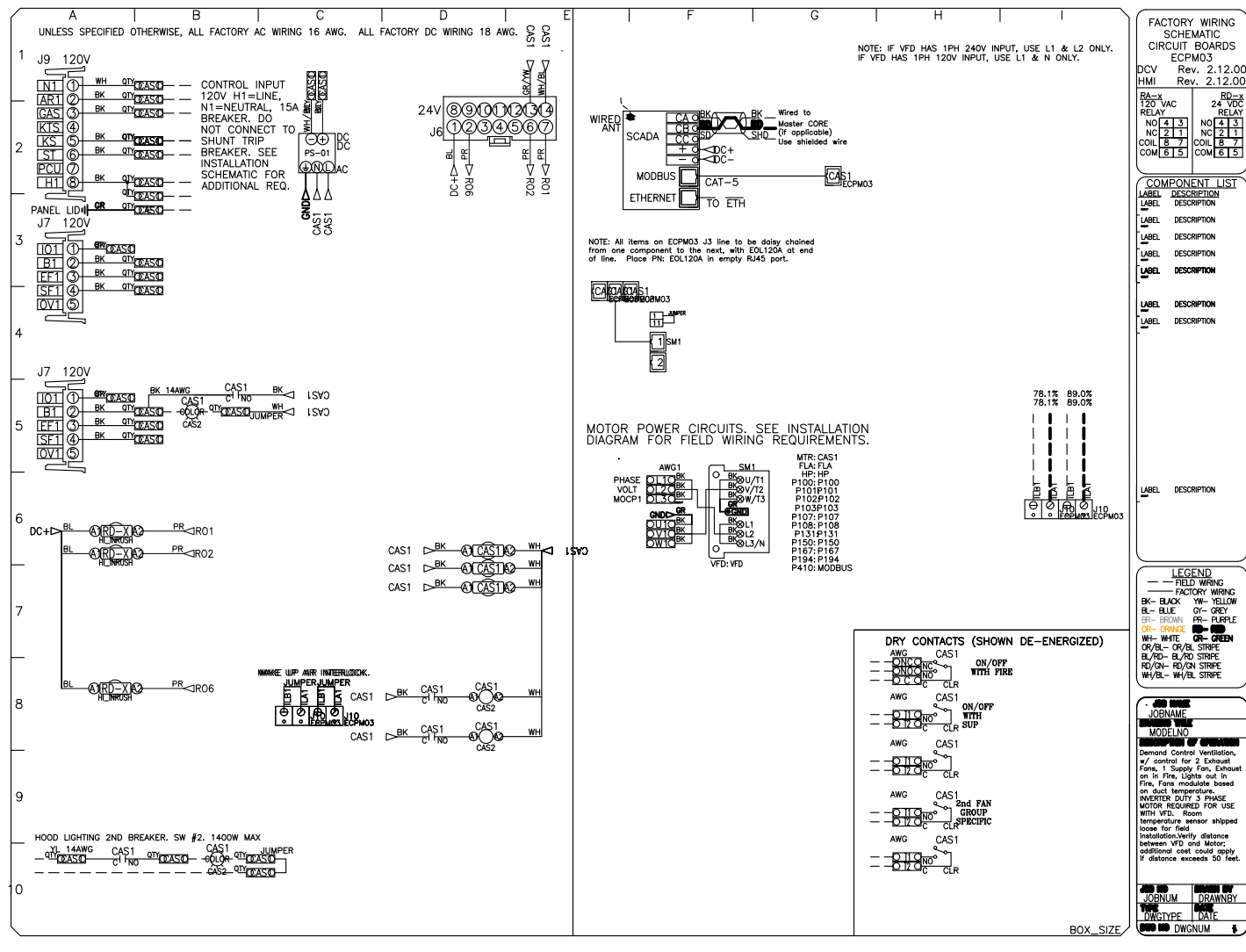
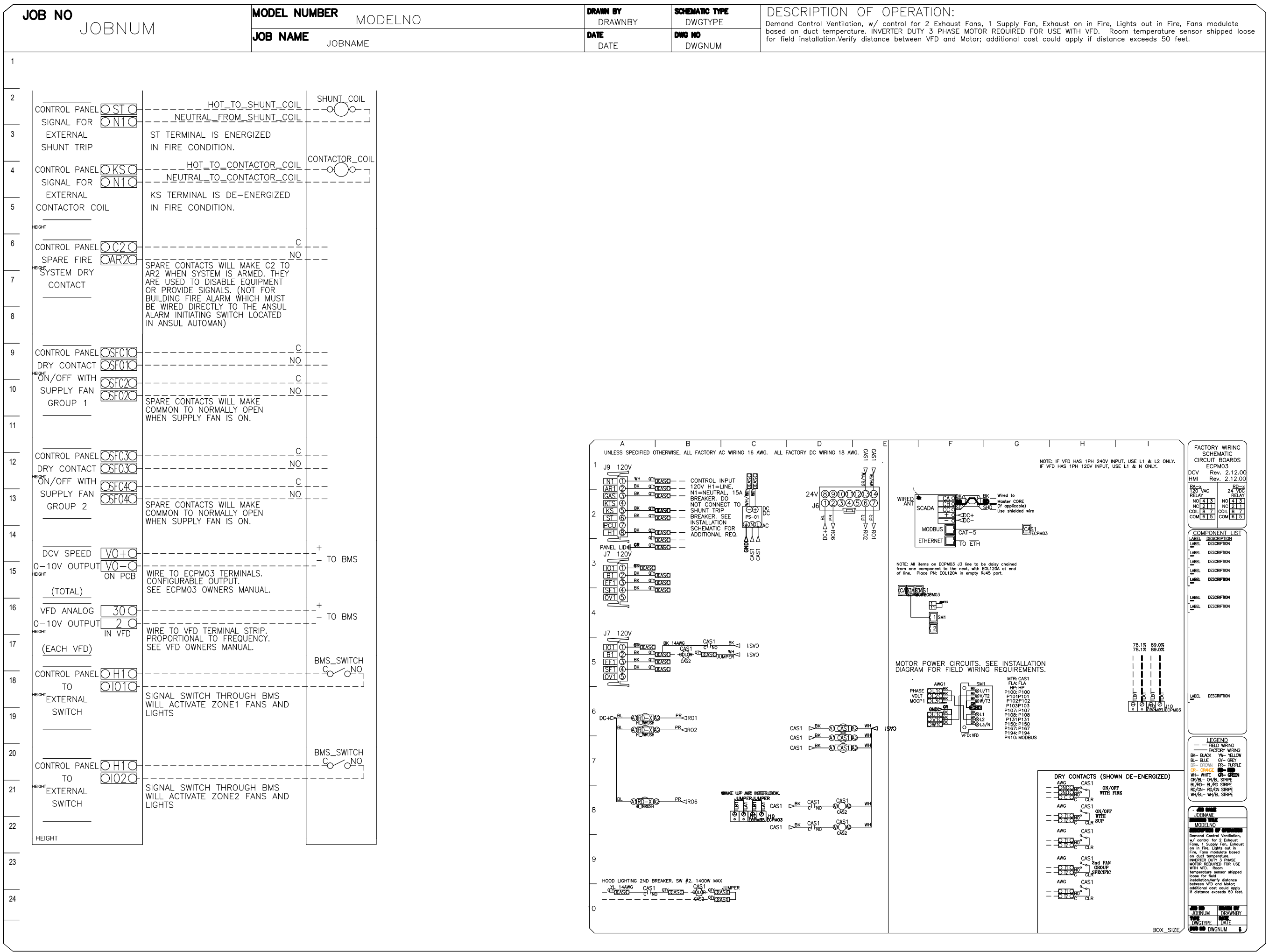
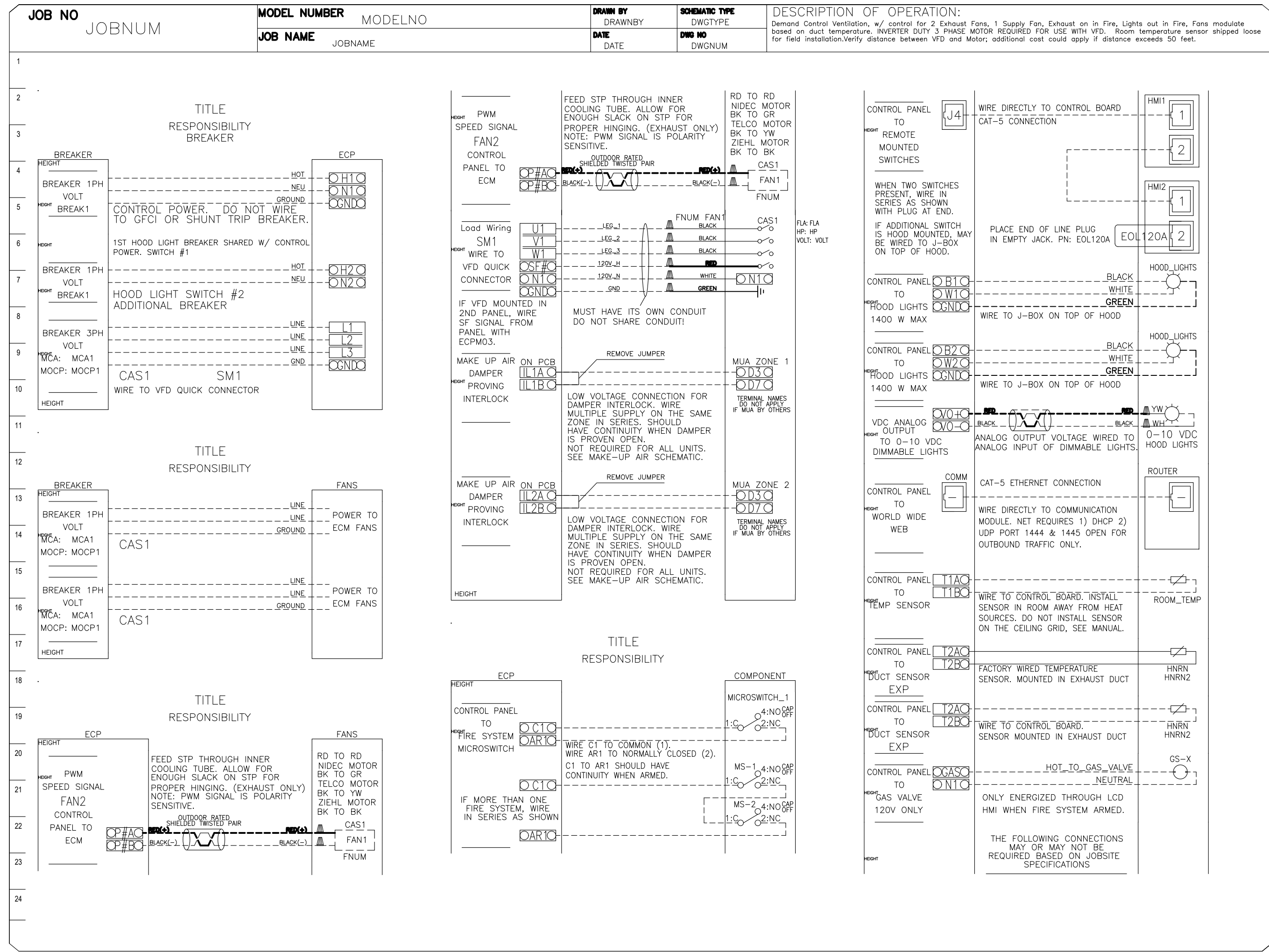
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REVISIONS

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