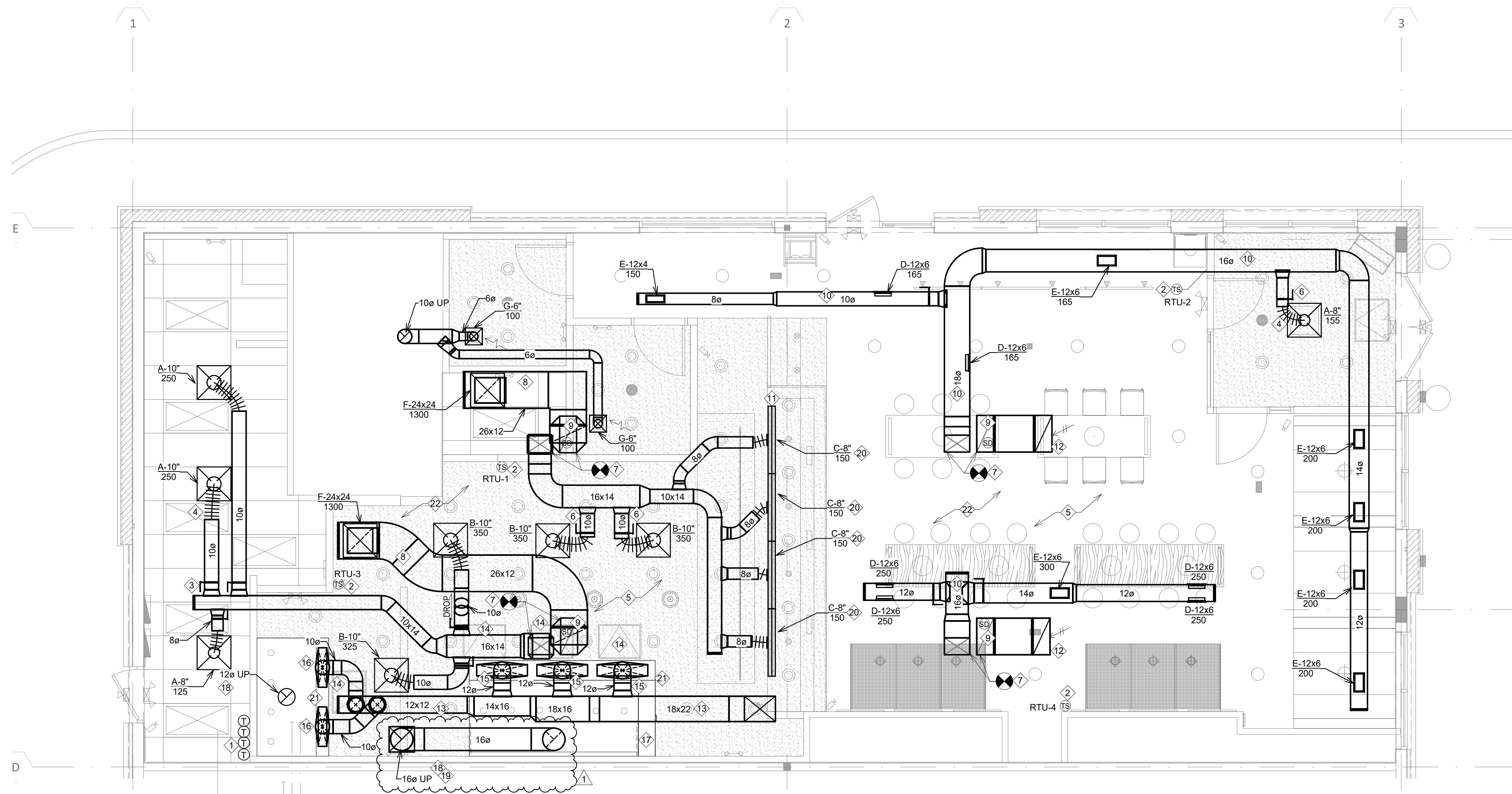


MECHANICAL SYMBOLS LEGEND		
DUCTWORK		
	SUPPLY AIR	
	RETURN AIR	RETURN DUCT UP, NEGATIVE PRESSURE
	EXHAUST AIR	EXHAUST DUCT UP, NEGATIVE PRESSURE
	STANDARD BRANCH, NO SPLITTER - SUPPLY FLOW TO RIGHT - RETURN/EXHAUST FLOW TO LEFT	SUPPLY DUCT DN, POSITIVE PRESSURE
	BELLMOUTH WITH BALANCING DAMPER	RETURN DUCT DN, NEGATIVE PRESSURE
	FLEXIBLE DUCT	EXHAUST DUCT DN, NEGATIVE PRESSURE
	TURNING VANES	SUPPLY DIFFUSER/REGISTER BLANKOFF INDICATED
	FLEXIBLE CONNECTION	RETURN GRILLE/REGISTER
	MANUAL VOLUME DAMPER	EXHAUST GRILLE/REGISTER
	MOTORIZED DAMPER	LINEAR DIFFUSER
	FIRE DAMPER & ACCESS PANEL	CONCENTRIC DUCT TRANSITION
	SMOKE DAMPER & ACCESS PANEL	ECCENTRIC DUCT TRANSITION
	COMBINATION FIRE/SMOKE DAMPER & ACCESS PANEL	RECTANGULAR-TO-ROUND DUCT TRANSITION
	SUPPLY GRILLE OR REGISTER	DUCT OFFSETS
	RETURN OR EXHAUST GRILLE OR REGISTER	DUCT CUTLINE
CONTROLS		
	TAMPERPROOF THERMOSTAT	
	ROOM PRESSURE MONITOR	
	AQUA STAT	
	THERMOSTAT W/GUARD	
	CARBON MONOXIDE SENSOR	
	HUMIDISTAT OR R.H. SENSOR	
	REFRIGERANT SENSOR	
	SMOKE DETECTOR	
	SPACE TEMPERATURE SENSOR	
	STATIC PRESSURE SENSOR	
	THERMOSTAT	
	CARBON DIOXIDE SENSOR	
ANNOTATION		
	GRILLE, REGISTER, & DIFFUSER IDENTIFICATION	
	HYDRONIC FINED TUBE RADIATION & RADIANT PANEL IDENTIFICATION	
	ELECTRIC BASEBOARD RADIATION IDENTIFICATION	
	DETAIL NUMBER SHEET NUMBER	
	SECTION NUMBER SHEET NUMBER	
	EQUIP DESIGNATION EQUIP NUMBER	
	POINT OF CONNECTION, NEW TO EXISTING	
	POINT OF DISCONNECTION	



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

- KEY NOTES:**
- PROVIDE NEW HONEYWELL COMMERCIAL VISION PRO 8000 MODEL #T88220 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT WITH CONTROL FOR UP TO 2 STAGES OF HEATING, 2 STAGES OF COOLING. VERIFY COMPATIBILITY WITH LANDLORD PROVIDED HVAC UNITS PRIOR TO INSTALLATION. INSTALL ON WALL ABOVE MANAGERS DESK & WIRE TO EQUIPMENT PER MANUFACTURERS INSTALLATION INSTRUCTIONS. PROGRAM THERMOSTAT SET POINTS. COORDINATE SETTINGS WITH TENANT REQUIREMENTS AND LOCATION WITH DETAIL 6/A600. LABEL T-STAT BY UNIT SERVED.
 - PROVIDE REMOTE TEMPERATURE SENSOR COMPATIBLE WITH THERMOSTAT. MOUNT AT 60" A.F.F. COORDINATE REQUIREMENTS AND VERIFY COMPATIBILITY WITH HONEYWELL THERMOSTATS. PROVIDE INSULATED BACKER IF INSTALLED ON EXTERIOR WALL. LABEL SENSOR BY UNIT SERVED.
 - INSTALL TAKE OFF IN SUPPLY AIR DUCTWORK. PROVIDE MANUAL VOLUME DAMPER. (TYPICAL FOR ALL)
 - FLEX DUCT 4'-0" MAX. LENGTH. (TYPICAL) SEE DETAIL 2/M200.
 - FURNISH AND INSTALL ALL NEW DUCTWORK IN ACCORDANCE WITH SMACNA & C STANDARDS. HOLD ALL NEW DUCTWORK AS HIGH AS POSSIBLE/PRACTICAL. MOUNT TIGHT TO BOTTOM OF STRUCTURE UNLESS OTHERWISE NOTED. PROVIDE TRANSITIONS AS REQUIRED. DUCT DIMENSIONS ARE CLEAR INTERNAL AIR PATH DIMENSIONS. SUPPORT FROM STRUCTURE. COORDINATE WITH LIGHTING AND ARCHITECTURAL ELEMENTS TO AVOID CONFLICT. VERIFY ALL CONDITIONS PRIOR TO BID.
 - VOLUME DAMPER TO BE ACCESSIBLE THROUGH TRM PLASTER FRAME. COORDINATE LOCATION IN FIELD.
 - CONNECT NEW DUCT TO EXISTING DUCT DROP WITH TRANSITION - DO NOT "HARD TAP" DROPS FROM UNIT. VERIFY EXISTING DROP SIZE IN FIELD.
 - RETURN AIR GRILLE CONNECTION SHALL BE GALV. SHEET DUCT. FLEX DUCT IS NOT ACCEPTABLE (TYPICAL).
 - DUCT SMOKE DETECTOR FURNISHED AND INSTALLED BY LANDLORD FIRE ALARM CONTRACTOR IN RETURN MAIN DUCT AND REMOTE TEST STATION WITH VISIBLE AND AUDIBLE ALARM, AND TIED INTO CENTRAL ALARM SYSTEM IF REQUIRED. SMOKE DETECTOR SHALL SHUT DOWN HVAC UNIT UPON DETECTION OF SMOKE. COORDINATE FINAL LOCATION OF REMOTE TEST STATION WITH AHJ.
 - SPIRAL DUCTWORK SHALL BE LINED PER SPECIFICATION, AND HAVE A BRIGHT GALVANIZED FINISH. COORDINATE WITH ARCHITECTURAL PLANS.


- KEY NOTES:**
- LINEAR DIFFUSERS TO BE ALIGNED TO APPEAR AS A CONTINUOUS DIFFUSER. SEE ARCHITECTURAL SHEETS FOR EXACT LOCATION. ADJUST DIFFUSER THROW BEHIND THE SERVICE COUNTER. COORDINATE WITH TENANT PROJECT MANAGER.
 - EXTEND RETURN AIR DUCT AND PROVIDE ELBOW TURNED UP (TOWARDS DECK), COVER OPENING WITH 1/2" X 1/2" WIRE MESH. LINE RETURN AIR DUCT WITH 1" ACOUSTIC INSULATION.
 - DUCTWORK TO BE ROUTED AS HIGH AS POSSIBLE, UP BETWEEN JOISTS, X-BRACING, AND OR JOIST WEBS WHERE FEASIBLE. COORDINATE ROUTING IN FIELD.
 - PROVIDE ACCESS PANELS IN HARD LID CEILING FOR SERVICE ACCESS TO IRIS DAMPERS, BALANCE DAMPERS, HOOD, AND/OR GREASE DUCT CLEANOUTS. VERIFY EXACT SIZE REQUIREMENTS AND LOCATION WITH ARCHITECTURAL. COORDINATE WITH LIGHTING.
 - EXTEND 12" DIA. AIR DUCT TO PLENUM SUPPLY HOOD WITH TRANSITION. INSTALL 12" DIA. CONTINENTAL FAN MANUFACTURING IRIS DAMPER MODEL IR-12 (NO EXCEPTIONS) WITH AIRFLOW MEASUREMENT TAPS AND NEOPRENE GASKET. HVAC CONTRACTOR SHALL INSTALL REDUCER/INCREASER AT IRIS DAMPER FOR CONNECTION TO DUCTWORK. BALANCE TO 633 CFM EACH.
 - EXTEND 10" DIA. AIR DUCT TO PLENUM SUPPLY HOOD WITH TRANSITION. INSTALL 10" DIA. CONTINENTAL FAN MANUFACTURING IRIS DAMPER MODEL IR-10 (NO EXCEPTIONS) WITH AIRFLOW MEASUREMENT TAPS AND NEOPRENE GASKET. HVAC CONTRACTOR SHALL INSTALL REDUCER/INCREASER AT IRIS DAMPER FOR CONNECTION TO DUCTWORK. BALANCE TO 380 CFM EACH.
 - HOOD CONTROL PANEL AND FIRE SUPPRESSION SYSTEM TO BE FURNISHED AS PART OF HOOD PACKAGE BY OTHERS AND INSTALLED BY MECHANICAL CONTRACTOR. SEE HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
 - NEW PREFABRICATED STAINLESS STEEL DUCT COMPLYING WITH UL-197B, FURNISHED BY OTHERS AS PART OF HOOD PACKAGE AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE NEW DUCT UP TO NEW EXHAUST FAN ON ROOF. VERIFY EXACT LOCATION AND ROUTING IN FIELD. SEE HOOD PLANS FOR ADDITIONAL INFORMATION. COORDINATE ADDITIONAL DUCT SECTIONS AND FITTING WITH HOOD SUPPLIER PRIOR TO START OF WORK.
 - PYROSCAT DUCT WRAP XL (OR EQUAL) FURNISHED BY OTHERS AS PART OF HOOD PACKAGE AND INSTALLED BY MECHANICAL CONTRACTOR. INSTALLED PER MANUFACTURERS INSTRUCTIONS TO COMPLY WITH ASTM E2336. SEE DETAIL S 3/M200 AND 4/M200. COORDINATE QUANTITY OF WRAP WITH HOOD SUPPLIER PRIOR TO START OF WORK.


- KEY NOTES:**
- PROVIDE YOUNG REGULATOR 270-275 CABLE CONTROL DAMPER FOR LINEAR SLOT DIFFUSERS. SEE DETAIL ON 1/M200 FOR ADDITIONAL INFORMATION.
 - HOOD AND MAKE-UP AIR PLENUM FURNISHED BY OTHERS. - INSTALLED BY MECHANICAL CONTRACTOR. REFER TO THE HOOD MANUFACTURER'S DRAWINGS FOR ADDITIONAL INFORMATION.
 - INSULATE ALL DUCTWORK PER SPECIFICATION - SEE SHEET M300.
- ALL FLEX DUCT MUST BE INSTALLED PER THE ADC (AIR DIFFUSION COUNCIL) INSTALLATION STANDARDS (MOST CURRENT EDITION), INCLUDING A BEND RADIUS OF ONE DUCT DIAMETER OR GREATER, PROPERLY SEALED AND SECURED WITH 2 INCH BEADED COLLARS, PROPERLY SUPPORTED AND FULLY EXTENDED DUCT. FAN CALCULATIONS FOR THIS PROJECT WERE SIZED FOR 4 FOOT MAXIMUM FLEX DUCT INSTALLED PER THE ADC INSTALLATION STANDARDS. FLEX DUCT SHOWN ON PLANS IS FOR SCHEMATIC PURPOSES ONLY AND SHALL IN NO INSTANCE EXCEED 4 FOOT.

- GENERAL NOTES:**
- INSTALL VOLUME DAMPER IN DUCT TAKE-OFF TO EACH DIFFUSER, GRILLE, AND REGISTER.
 - ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR MAY, AT THEIR OPTION, REPLACE RECTANGULAR DUCTWORK SHOWN WITH ROUND, SPIRAL DUCT OF EQUIVALENT CAPACITY.
 - IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR INDICATED OTHERWISE.
 - VERIFY ALL DUCT CONNECTION SIZES TO FANS, COILS, AND EXISTING DUCTWORK.
 - COOPERATE WITH THE OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, STRUCTURAL, ELECTRICAL WORK, ETC.
 - DIFFUSER, REGISTER, AND SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
 - ALL SQUARE DIFFUSERS SHALL HAVE THE AIR VOLUME EQUALLY IN FOUR DIRECTIONS UNLESS INDICATED OTHERWISE.
 - MECHANICAL CONTRACTOR TO VERIFY RATINGS OF ALL WALLS WITH ARCHITECTURAL DRAWINGS. SEAL PIPE PENETRATIONS TO MATCH THE WALL RATINGS. PROVIDE ALL SUPPLY AND RETURN DUCTS PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE DAMPERS.
 - RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSERS NECK SIZE.
 - TENANTS CONTRACTORS SHALL VERIFY WITH HVAC PLAN TO COORDINATE THE REQUIREMENT OF PLENUM RADIAL FIXTURES, PIPING, WIRING, ETC. FAILURE TO DO SO COULD RESULT IN THE REMOVAL AND REPLACEMENT OF THESE ITEMS AT NO ADDITIONAL COST TO THE TENANT - NO PVC PIPING ALLOWED IN PLENUM.
 - CONTRACTOR SHALL STENCIL TENANT NAME AND SPACE NUMBER ON UNIT.
 - THE TENANTS MECHANICAL CONTRACTOR SHALL GO TO THE SITE AND VERIFY THE SIZE, DESIGN, SUPPORT AND LOCATION FOR ALL EXISTING AND FUTURE MECHANICAL EQUIPMENT AND UTILITY TAPS PRIOR TO ANY EQUIPMENT ORDERING, WORK, DUCTWORK FABRICATION ETC. NOTIFY THE TENANTS PROJECT MANAGER OR PROJECT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES. FAILURE TO DO SO COULD RESULT IN EQUIPMENT AND/OR MATERIALS REPLACEMENT AT NO ADDITIONAL EXPENSE TO THE TENANT.

- ALL EQUIPMENT, INSTALLATIONS, AND MATERIAL SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES AND LANDLORD CRITERIA.
- REMOVE ALL UNUSED PIPING, DUCTWORK, AND ACCESSORIES - DO NOT ABANDON.
- VERIFY LOCATION OF ANY PENETRATION THRU ROOF WITH LANDLORD. ALL ROOF PENETRATIONS, PATCHING, AND FLASHING SHALL BE BY LANDLORD'S ROOFING CONTRACTOR AT MECHANICAL CONTRACTOR EXPENSE.
- PRIOR TO OCCUPANCY OF THE PREMISES, GENERAL CONTRACTOR IS REQUIRED TO PROVIDE AN AIR BALANCE REPORT. AN APPROVED, INDEPENDENT, CERTIFIED AIR-BALANCE COMPANY MUST PERFORM THE TEST REPORT. PROVIDE COPY TO TENANT AND ARCHITECT.
- PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. IF DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.
- HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE ROUTING OF DUCTWORK WITH WATER, VENT, WASTE & STORM PIPING STRUCTURE, CEILING ELEVATION, ELECTRICAL SWITCHGEAR AND PANEL BOARDS, LIGHTS, SPRINKLER PIPING, STRUCTURE, AND ALL OTHER TRADES. PLANS MAY NOT INDICATE ALL OFFSETS.
- SEAL DUCT SEALER PER SMACNA REQUIREMENTS AS INDICATED IN SPECIFICATIONS.
- CONTRACTOR TO VERIFY THAT ALL EQUIPMENT TO REMAIN IS SECURED TO STRUCTURE PER MANUFACTURERS INSTRUCTIONS.
- PROVIDE STAINLESS STEEL ESCUTCHEON THROUGH WALL AND CEILING PENETRATIONS.

CONSULTANT:
DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE: 612.465.7550 FAX: 612.465.7551
WEB: dunhameng.com
MISSOURI STATE CERTIFICATE OF AUTHORITY #001661
mechanical + electrical consulting engineering

SEAL/SIGNATURE:


PROJECT:

BIBIBOP
asian grill
STREETS OF
WEST PRYOR
2050 NW LOWENSTEIN DR.
SUITE E
LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
BIBIBOP PO NO.: TBD

PROJECT NO.: 0421995-101

DRAWN BY: TAB

CHECKED BY: GMS

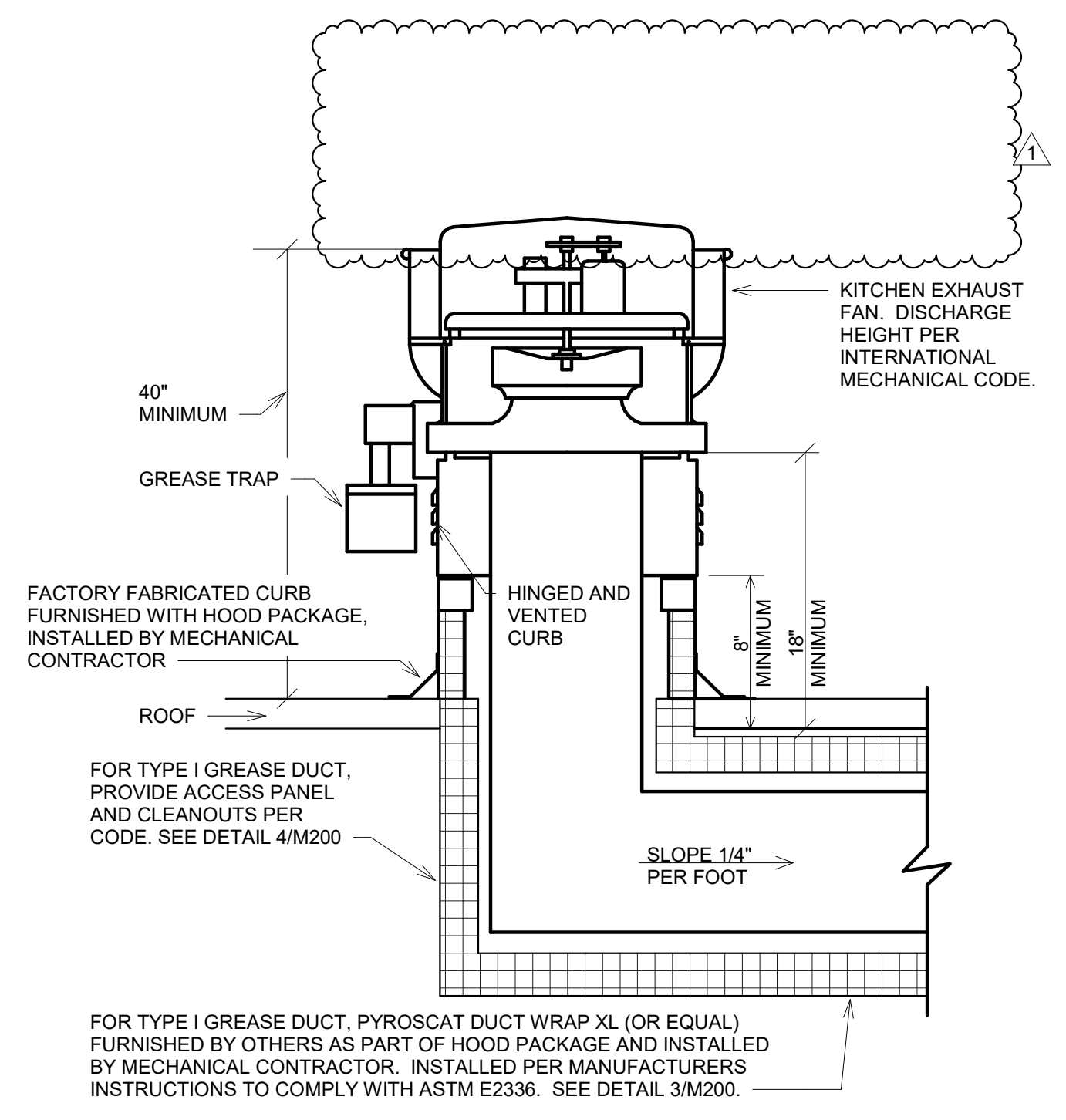
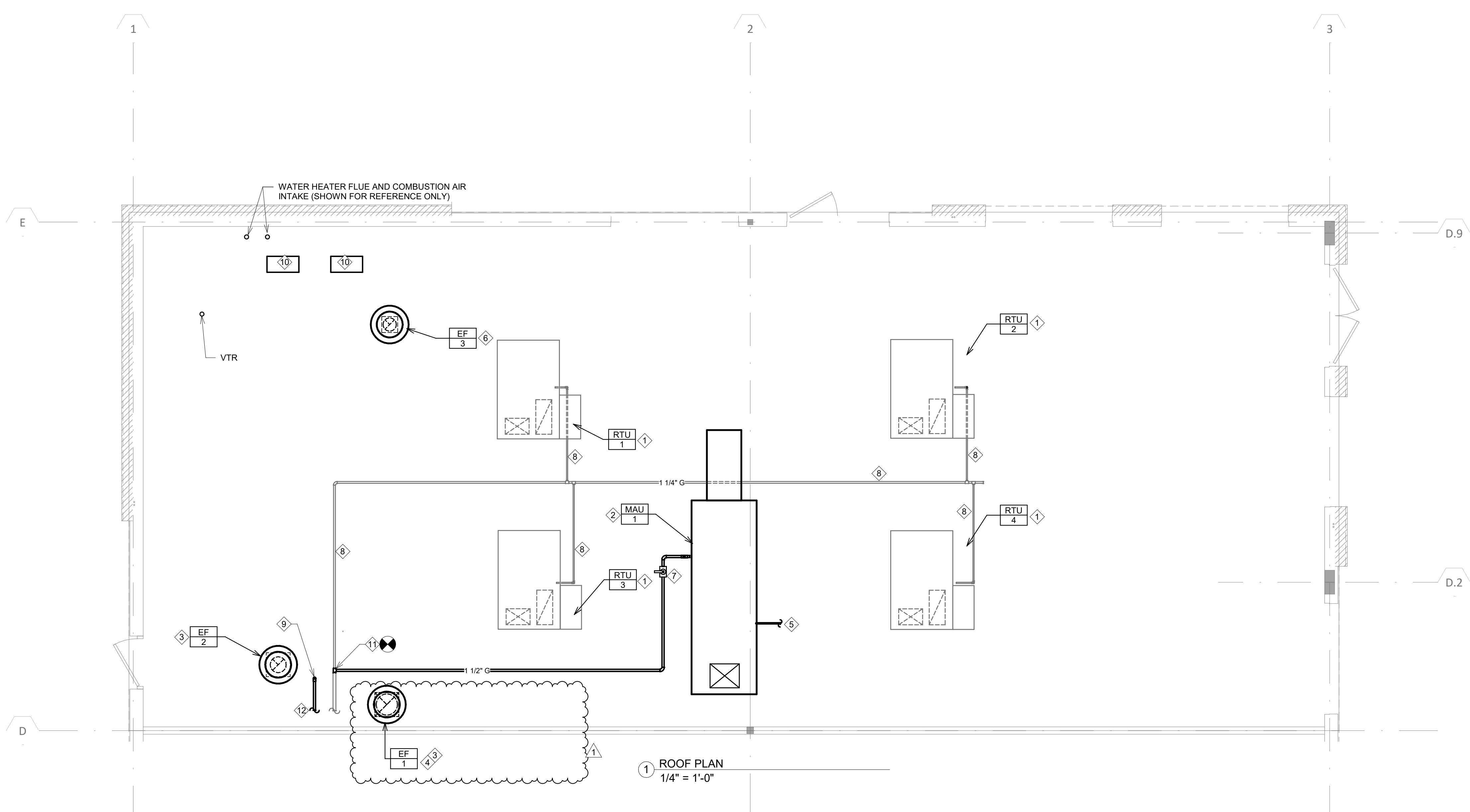
ISSUES AND REVISIONS:

PERMIT ISSUE 01.25.2021

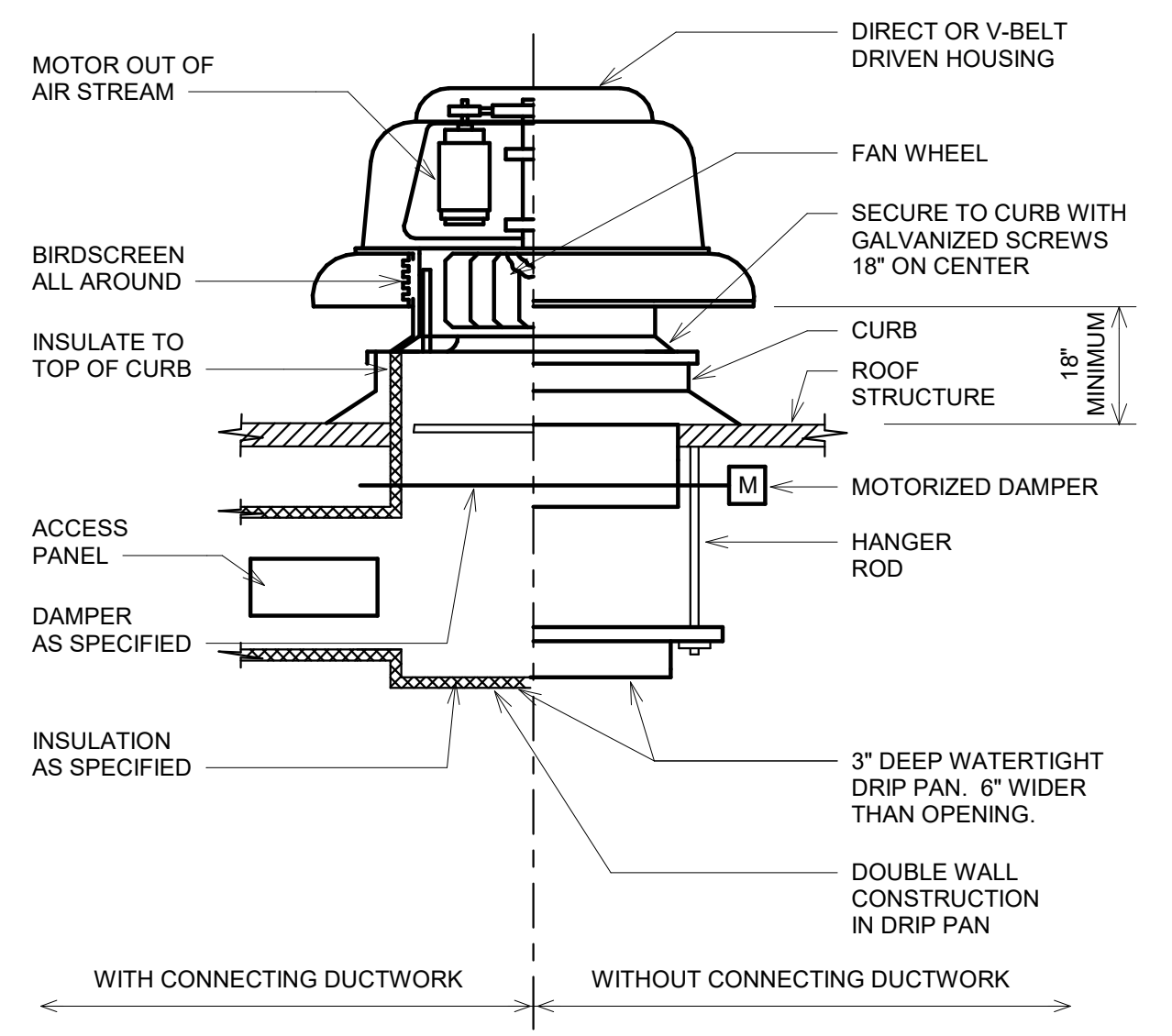
REVISION 1 02.10.2021

SHEET TITLE:
MECHANICAL ROOF PLAN

M110



2 KITCHEN PRV EXHAUST FAN DETAIL
NO SCALE



3 POWER ROOF VENTILATOR DETAIL
NO SCALE

OUTSIDE AIR CALCULATION

OUTSIDE AIR CALCULATION BASED ON THE 2015 IMC

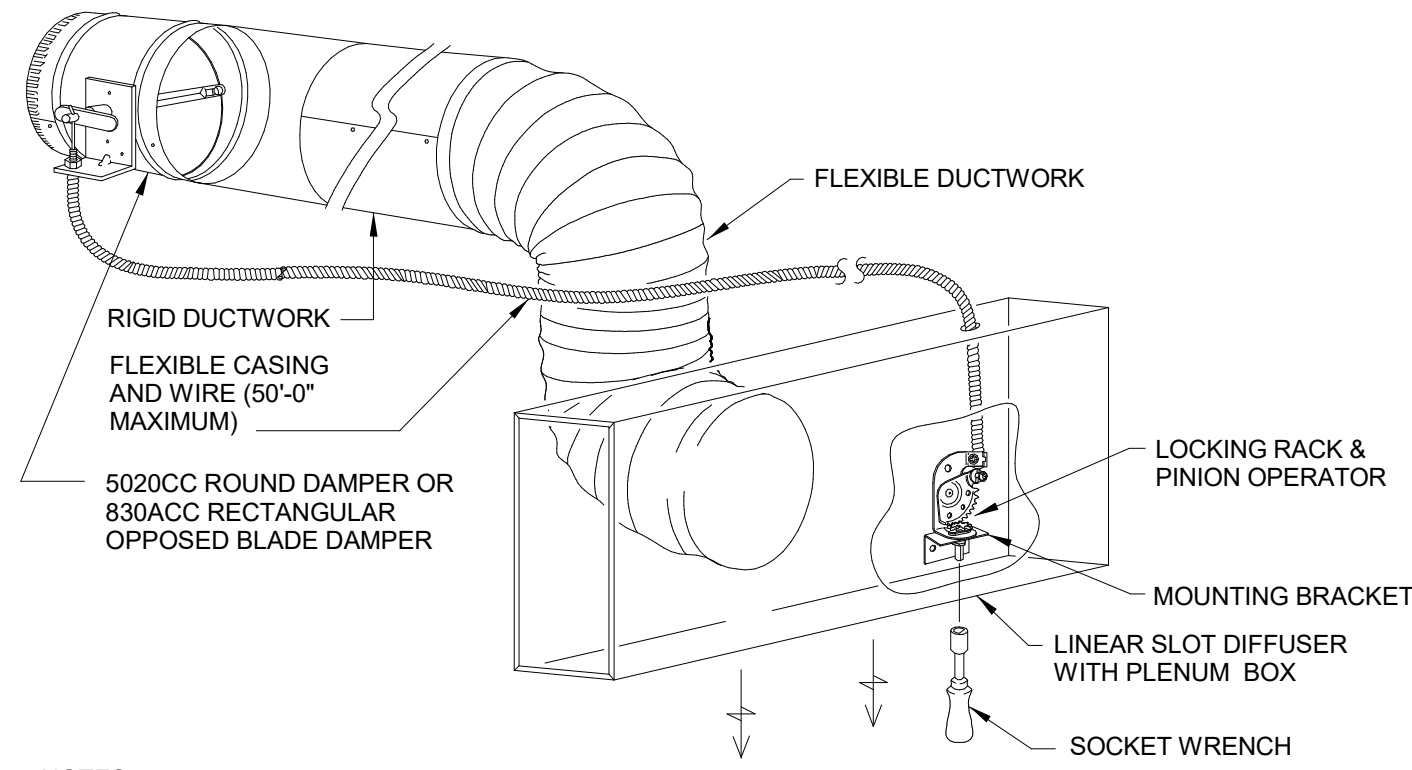
AREA #1 - SEATING AREA	NET SQ. FOOTAGE:	870
0.18 CFM/SQFT. X 870 SQ. FT. =		157
7.5 CFM / PERSON X 42 PEOPLE =		315
	VENTILATION:	472 CFM
AREA #2 - UTILITY/PREP AREA	NET SQ. FOOTAGE:	115
0.06 CFM/SQFT. X 115 SQ. FT. =		7
7.5 CFM / PERSON X 2 PEOPLE =		15
	VENTILATION:	22 CFM
AREA #3 - OFFICE	NET SQ. FOOTAGE:	60
0.06 CFM/SQFT. X 60 SQ. FT. =		4
5.0 CFM / PERSON X 1 PERSON =		5
	VENTILATION:	9 CFM
AREA #4 - HALLWAY	NET SQ. FOOTAGE:	175
0.06 CFM/SQFT. X 175 SQ. FT. =		11
	VENTILATION:	11 CFM
AREA #5 - SCULLERY/STORAGE	NET SQ. FOOTAGE:	375
0.12 CFM/SQFT. X 375 SQ. FT. =		45
7.5 CFM / PERSON X 2 PERSON =		15
	VENTILATION:	60 CFM
VENTILATION SUBTOTAL:		594 CFM
VENTILATION EFFECTIVENESS:		0.8
MINIMUM VENTILATION REQUIRED:		743 CFM
MINIMUM VENTILATION SUPPLIED:		920 CFM
AREA #6 - KITCHEN (MIN. EXHAUST)	NET SQ. FOOTAGE:	465
0.7 CFM/SQFT. EXHAUST X 465 SQ. FT. =	EXHAUST:	326 CFM
MINIMUM EXHAUST REQUIRED:		326 CFM
MINIMUM EXHAUST SUPPLIED:		2300 CFM

AIR BALANCE SCHEDULE

TAG	OUTSIDE AIR (CFM)	RETURN AIR (CFM)	SUPPLY AIR (CFM)	EXHAUST AIR (CFM)	SPACE PRESSURE	NOTES
EF-1				-2300	-2300	1
EF-2				-950	-950	1
EF-3				-200	-200	1
MAU-1	+2660				+2660	1
RTU-1	+150	1150	1300		+150	1
RTU-2	+350	1250	1600		+350	1
RTU-3	+150	1150	1300		+150	1
RTU-4	+270	1030	1300		+270	1
				TOTAL	+130	

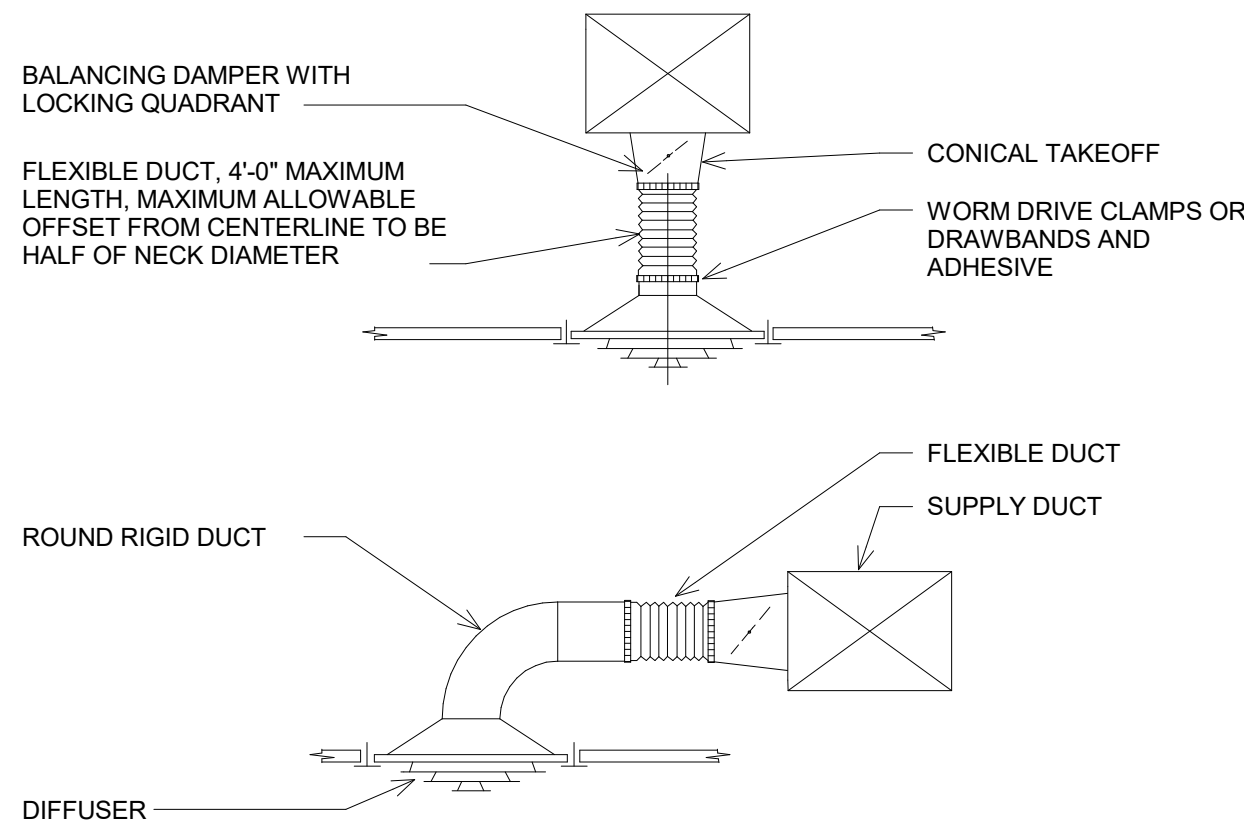
NOTES:
1. GENERAL CONTRACTOR SHALL CONTRACT A SEPARATE TEST AND BALANCE CONTRACTOR FOR FINAL SETUP OF ALL SYSTEMS, THEIR OPERATION, AND BALANCING.

- KEY NOTES:**
- RTU PROVIDED BY LANDLORD FOR TENANT USE. VERIFY LOCATION AND ORIENTATION IN FIELD PRIOR TO START OF WORK.
 - NEW MAKE-UP AIR UNIT AND CURB FURNISHED BY OTHERS AS PART OF HOOD PACKAGE AND INSTALLED BY MECHANICAL CONTRACTOR. SEE HOOD PLANS FOR ADDITIONAL INFORMATION. ROOF WORK TO BE COMPLETED BY LANDLORD APPROVED ROOFING CONTRACTOR.
 - NEW EXHAUST FAN AND CURB FURNISHED BY OTHERS AS PART OF HOOD PACKAGE AND INSTALLED BY MECHANICAL CONTRACTOR. VERIFY EXACT LOCATION IN FIELD. LOCATION ON DRAWINGS IS APPROXIMATE ONLY. SEE HOOD PLANS FOR ADDITIONAL INFORMATION. MAINTAIN MIN. DISTANCE OF 10'-0" FROM ALL FRESH AIR INTAKES. SEE DETAIL 2/M110.
 - PROVIDE APPROVED ROOF PROTECTION MEMBRANE AT GREASE EXHAUST FAN. FURNISHED AND INSTALLED BY LANDLORD APPROVED ROOFING CONTRACTOR AT TENANT CONTRACTOR EXPENSE. COORDINATE WITH LANDLORD FIELD REPRESENTATIVE.
 - NEW 1" CONDENSATE PIPE W/ MIN. 3" DEEP P-TRAP TO SPLASHBLOCK ON ROOF.
 - NEW EXHAUST FAN AND CURB PROVIDED BY MECHANICAL CONTRACTOR. SEE DETAIL 3/M110. MAINTAIN MIN. DISTANCE OF 10'-0" FROM ALL FRESH AIR INTAKES. COORDINATE EXACT LOCATION IN FIELD.
 - PROVIDE NEW BALL VALVE, DIRT LEG, AND UNION AT UNIT.
 - EXISTING GAS PIPING ON ROOF TO REMAIN.
 - GAS PIPE DN THRU ROOF. SEE 1/P110 FOR GAS PIPING WITHIN SPACE.
 - CONDENSERS FOR WALK-IN COOLER (BY OTHERS) SHOWN FOR REFERENCE. SEE P110 FOR ADDITIONAL INFORMATION.
 - CONNECT NEW 1-1/2" GAS PIPING TO EXISTING 2" GAS PIPING ON ROOF. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
 - EXTEND NEW 1-1/2" GAS PIPING TO EXISTING GAS METER BANK AND CONNECT IMMEDIATELY DOWNSTREAM OF METER. VERIFY PIPE ROUTING AND METER LOCATION IN FIELD.



NOTES:

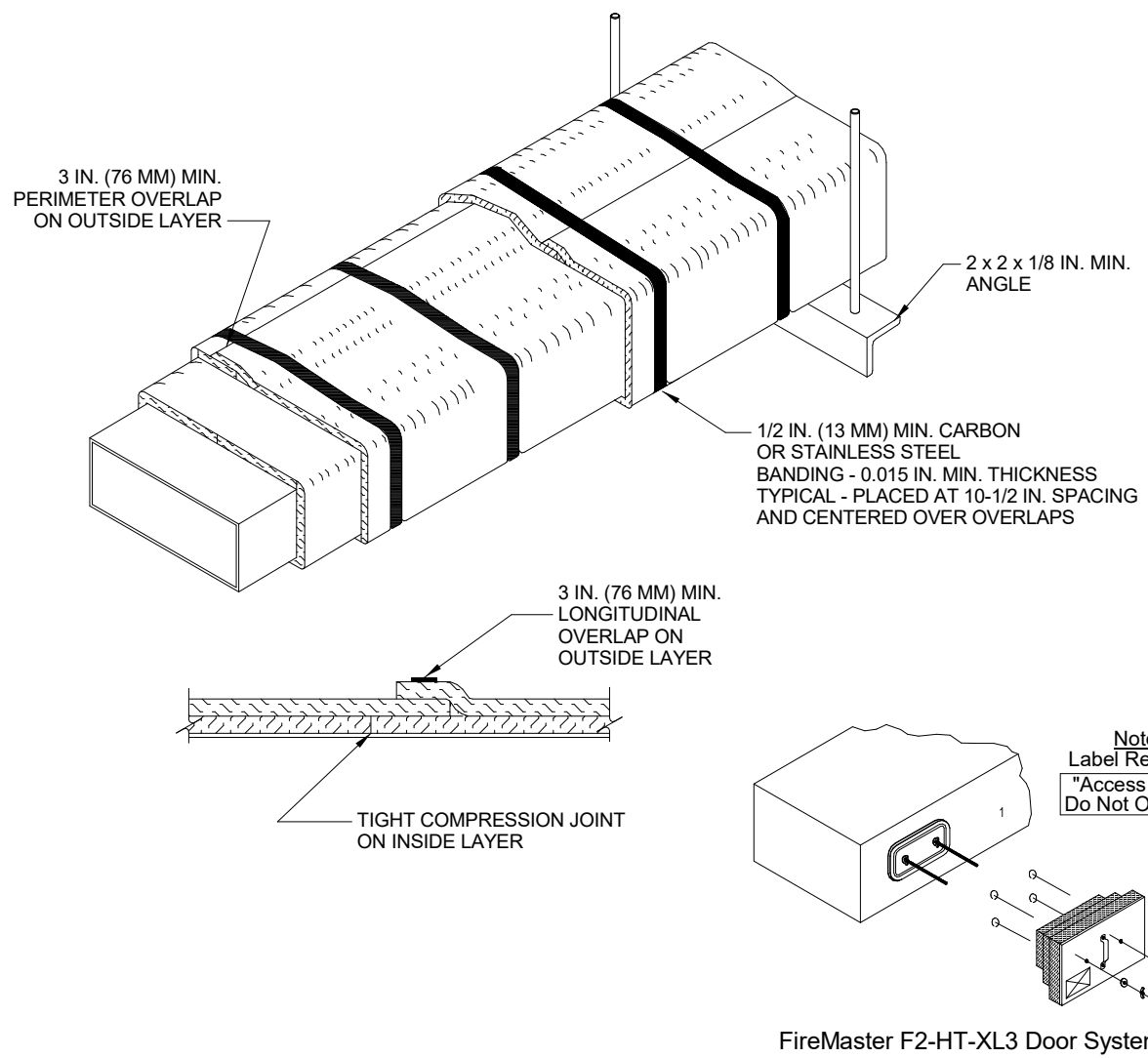
- THE 270-275 BOWDEN CABLE CONTROL SYSTEM IS DESIGNED FOR USE WITH EXTERNALLY CONTROLLED ROUND OR RECTANGULAR DAMPERS, AND CAN BE MOUNTED IN A WIDE VARIETY OF LOCATIONS INCLUDING CEILING JOISTS, LAY-IN CEILINGS, BEHIND GRILLES, ON OR INSIDE OTHER VARIOUS TYPES OF DIFFUSERS, ETC.
- CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
- LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
- CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.



NOTE:

- TOP DETAIL IS TO BE FOLLOWED WHEN CENTERLINE OF DIFFUSER IS UNDER THE DUCT ENOUGH TO PERMIT A BOTTOM TAKEOFF WITH A FLEXIBLE DUCT OFFSET OF LESS THAN HALF THE NECK DIAMETER. BOTTOM DETAIL TO BE USED IN ALL OTHER CASES

- THERMAL CERAMICS FIREMASTER FASTWRAP XL OR PYROSCAT XL HAS BEEN TESTED IN ACCORDANCE WITH ASTM E2536 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
- COMPLIANT TO THE FOLLOWING CODES:
NFPA 96
CURRENT INTERNATIONAL MECHANICAL CODES
CURRENT UNIFORM MECHANICAL CODE.
- INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
- GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
- THERMAL CERAMICS FIREMASTER ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.
- ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.
- SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.



Thermal Ceramics
 P.O. Box 323
 Augusta, Georgia 30903-0923
 Phone: (706) 560-4038

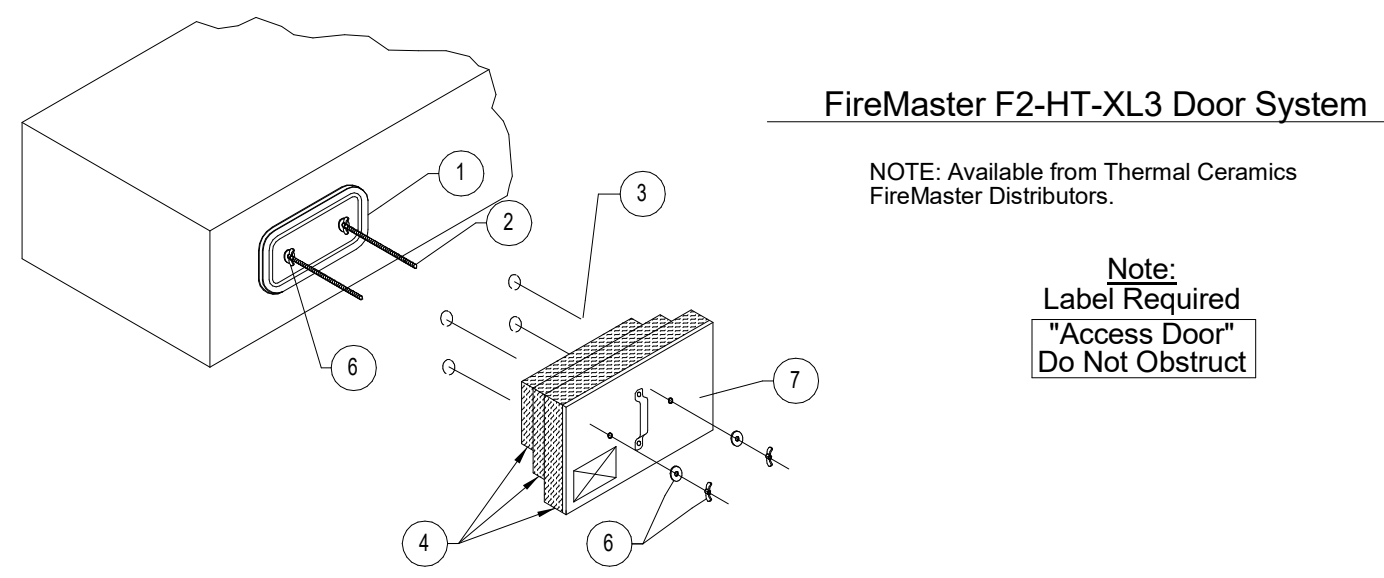
1 YOUNG REGULATOR 270-275 BOWDEN CABLE CONTROL SYSTEM
NO SCALE

2 CEILING DIFFUSER RUNOUT DETAIL
NO SCALE

3 GREASE DUCT WRAP DETAIL
NO SCALE

REFER TO HOOD SHEETS FOR HOOD INFORMATION

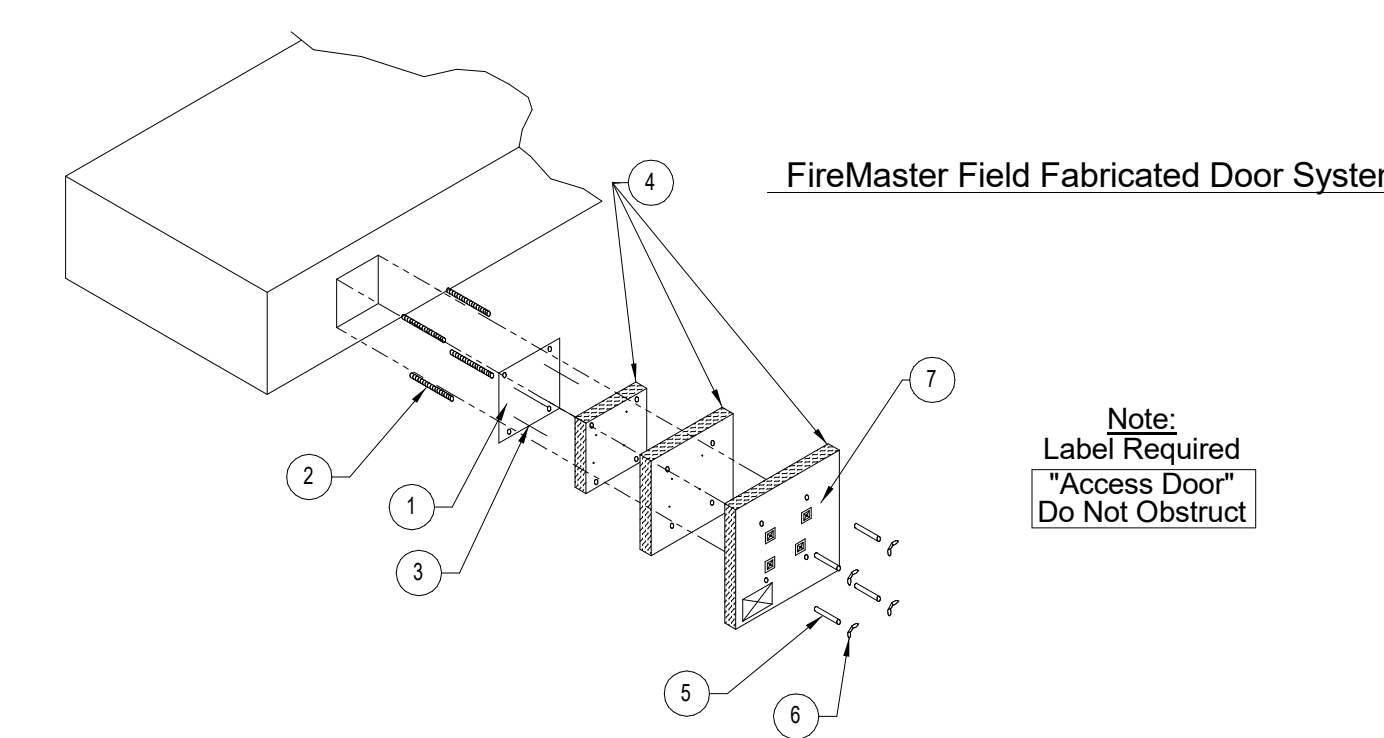
Thermal Ceramics FireMaster® FastWrap® XL Access Door Systems Commercial Kitchen Grease Duct Enclosure System



FireMaster F2-HT-XL3 Door System

NOTE: Available from Thermal Ceramics FireMaster Distributors.

Note: Label Required "Access Door" Do Not Obstruct



FireMaster Field Fabricated Door System

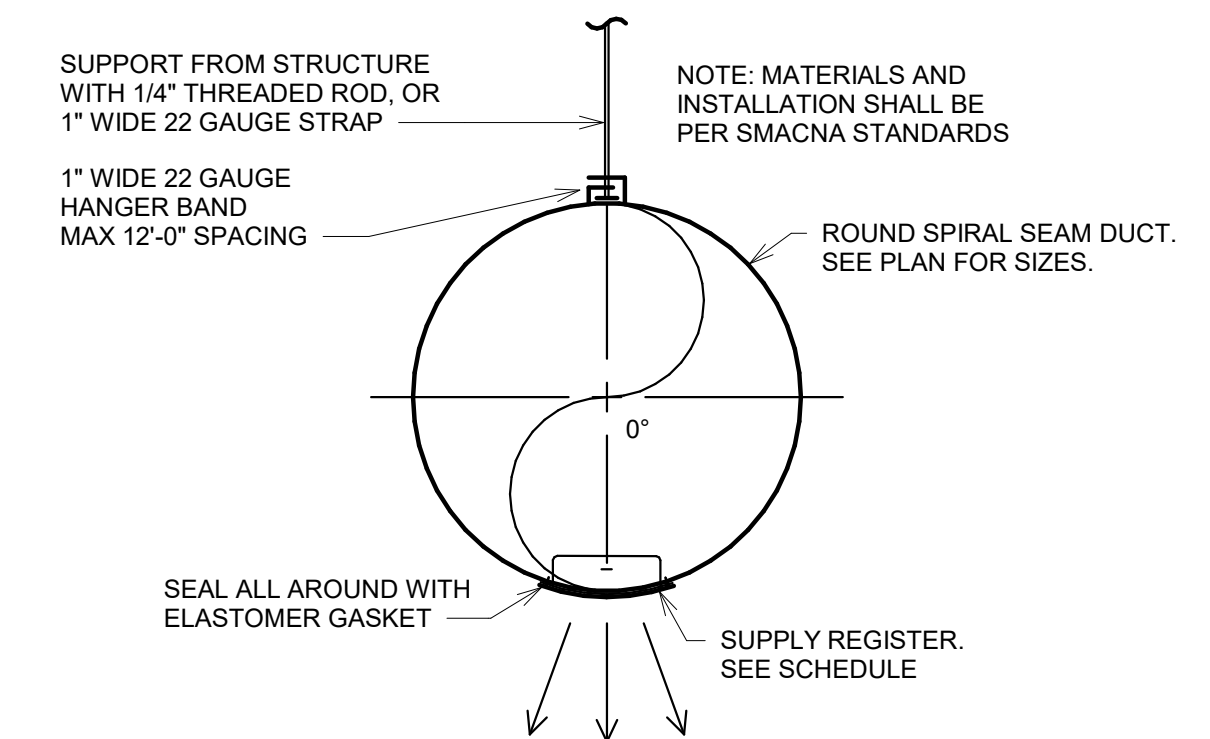
Note: Label Required "Access Door" Do Not Obstruct

LEGEND

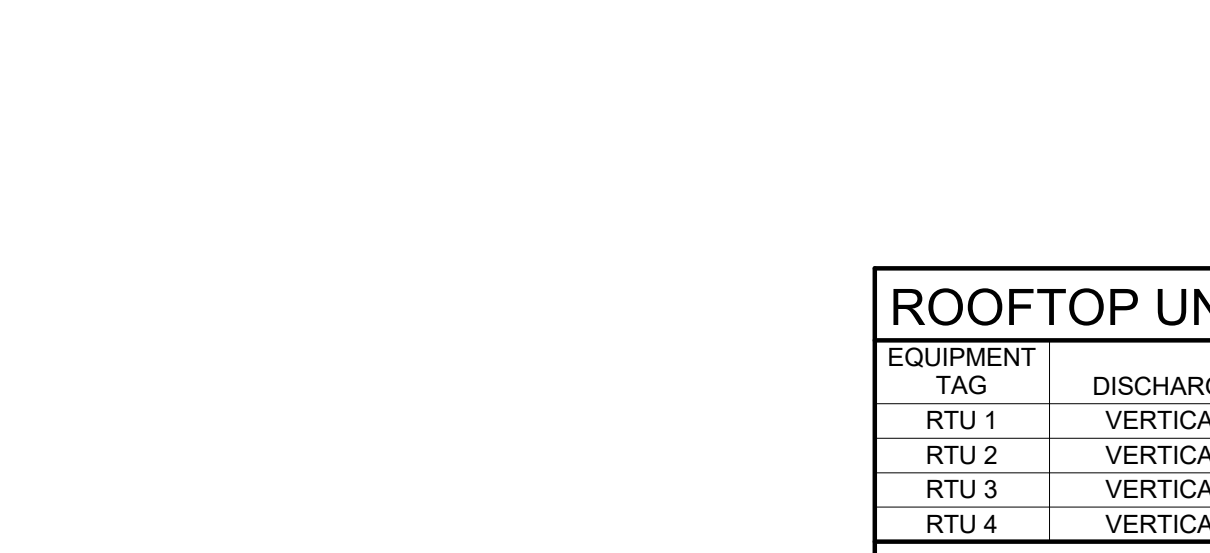
1	DuctMate F2-HT Access Door or 16 Gauge Field Fabricated Access Door.
2	All Thread Rods.
3	Installation Pins with Speed Clips.
4	Three Layers of FireMaster FastWrap XL Blanket with Minimum 1" Overlaps and All Edges Sealed with Aluminum Tape.
5	Spool Pieces for Threaded Rods
6	Wing Nuts and Washers
7	Outer Cover Plate Labeled "ACCESS DOOR - DO NOT OBSTRUCT"

The integrity of the duct wrap insulation product is limited to the quality of the installation.

5 SPIRAL DUCT DIFFUSER METHOD 1
NO SCALE



6 SPIRAL DUCT DIFFUSER DETAIL METHOD 2
NO SCALE



GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

DIFF. TAG	APPLICATION	MOUNTING TYPE	DESCRIPTION	FINISH	ACCESSORIES	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
A	SUPPLY	LAY-IN	24" x 24"	WHITE	OBD	TITUS	TMS	1, 3
B	SUPPLY	LAY-IN	24" x 24"	WHITE	OBD	TITUS	PAR	2, 3
C	SUPPLY	SURFACE	4'-0" LONG	WHITE	MPI-SP PLENUM	TITUS	ML-38	4
D	SUPPLY	DUCT	SEE PLANS	CLEAR ANODIZED	OBD	TITUS	S300FS	5
E	SUPPLY	DUCT	SEE PLANS	CLEAR ANODIZED	OBD	TITUS	S300FS	6
F	RETURN	LAY-IN	24" X 24"	WHITE		TITUS	50F	7
G	EXHAUST	SURFACE	12" x 12"	WHITE	OBD	TITUS	350RL	8

- MECHANICAL NOTES:**
- SUPPLY AIR DIFFUSER WITH OPPOSED BLADE DAMPER.
 - PERFORATED DIFFUSER WITHOUT PATTERN CONTROLLER FOR MINIMUM THROW.
 - PROVIDE TRIM PLASTER FRAME IF INSTALLED IN GYP. CEILING.
 - LINEAR SLOT DIFFUSER WITH (4) 3/4" SLOTS - PROVIDE MPI-SP INSULATED PLENUM BOX. COORDINATE FRAME TYPE WITH GC AND ARCHITECT.
 - SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION SUPPLY REGISTER WITH INTEGRAL AIR SCOOP. INSTALL PER METHOD 1 - SEE DETAIL 6/M200.
 - SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION SUPPLY REGISTER WITH INTEGRAL AIR SCOOP. INSTALL PER METHOD 2 - SEE DETAIL 6/M200.
 - 1/2" X 1/2" EGGRATE GRILLE.
 - 35° DEFLECTION GRILLE.

FAN SCHEDULE

EQUIPMENT TAG	TYPE	CFM	ESP (IN. W.C.)	HP	RPM	TIP SPEED	DRIVE TYPE	ELEC.	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
EF 1	UPBLAST	2300	0.25	2.0	1058	-	DIRECT	SEE ELEC	CAPTIVE AIRE	DU180HFA	1, 4
EF 2	UPBLAST	950	0.5	0.5	1348	-	DIRECT	SEE ELEC	CAPTIVE AIRE	DUS0HFA	1, 4
EF 3	DOWNBLAST	200	0.5	0.1	1522	-	DIRECT	SEE ELEC	GREENHECK	G-080-VG	2, 3, 5

- MECHANICAL NOTES:**
- FANS FURNISHED WITH HOOD PACKAGE BY OTHERS - INSTALLED BY MECHANICAL CONTRACTOR. SEE HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
 - FURNISHED AND INSTALLED BY CONTRACTOR.
 - PROVIDE WITH MOTORIZED BACKDRAFT DAMPER - DAMPER MAY BE FACTORY FURNISHED, OR INSTALLED SEPARATELY BY CONTRACTOR.
 - SEE DETAIL 2/M110.
 - SEE DETAIL 3/M110.

MAKE UP AIR UNIT SCHEDULE

EQUIPMENT TAG	SYSTEM	FAN			HEATING		COOLING		CONDENSER QUANTITY & NOMINAL TONS	ELECTRICAL DATA	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
		CAPACITY (CFM)	S.P. INCHES W.G.	HP	GAS INPUT (MBH)	GAS OUTPUT (MBH)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)					
MAU 1	GREASE HOOD	2660	0.5	3.0	205	189	50.1	32.8	1 X 5-TON	SEE ELEC	CAPTIVE AIRE	A2-D.500-20D-MPU	1, 2

- MECHANICAL NOTES:**
- FURNISHED BY OTHERS - INSTALLED BY M.C. SEE HOOD DRAWINGS FOR MORE INFORMATION.
 - UNIT FURNISHED WITH INDOOR DIRECT FIRED HEATING, FAN, FILTER, AND EVAPORATOR COIL SECTIONS, AND OUTDOOR CONDENSING UNITS TO BE INSTALLED ON ROOF. SEE HOOD DRAWINGS FOR MORE INFORMATION.

ROOFTOP UNIT SCHEDULE

EQUIPMENT TAG	DISCHARGE	TON	ESP	CFM	OA CFM	DB (F)	WB (F)	AMBIENT	TOTAL	SENSIBLE	EER	INPUT (MBH)	OUTPUT	AFUE %	ELECTRICAL DATA	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
RTU 1	VERTICAL	4.0	0.75	1300	150	78.5	67.8	100	EXISTING	EXISTING	EXISTING	110	88	EXISTING	SEE ELEC	CARRIER	48FCEA05B2M5	1, 2
RTU 2	VERTICAL	5.0	1.00	1600	350	80.4	67.7	100	EXISTING	EXISTING	EXISTING	110	88	EXISTING	SEE ELEC	CARRIER	48FCEA06B3M5	1, 2
RTU 3	VERTICAL	4.0	0.75	1300	150	78.5	67.8	100	EXISTING	EXISTING	EXISTING	110	88	EXISTING	SEE ELEC	CARRIER	48FCEA05B2M5	1, 2
RTU 4	VERTICAL	4.0	0.75	1300	270	80.4	67.7	100	EXISTING	EXISTING	EXISTING	110	88	EXISTING	SEE ELEC	CARRIER	48FCEA05B2M5	1, 2

- MECHANICAL NOTES:**
- UNIT FURNISHED AND INSTALLED BY LANDLORD FOR TENANT USE.
 - TENANT CONTRACTOR TO BALANCE UNIT TO AIRFLOW INDICATED.

4 GREASE DUCT ACCESS DOOR DETAIL
NO SCALE

CONSULTANT:

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
phone: 612.465.7550 fax: 612.465.7551
web: dunhameng.com
MISSOURI STATE CERTIFICATE OF AUTHORITY #001661
mechanical + electrical consulting engineering

SEAL/SIGNATURE:

GREGORY M. STEINMETZ
REGISTERED PROFESSIONAL ENGINEER
NUMBER PE-200802098

BIBIBOP
asian grill
STREETS OF WEST PRYOR
2050 NW LOWENSTEIN DR.
SUITE E
LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
BIBIBOP PO NO.: TBD

PROJECT NO.: 0421995-101

DRAWN BY: TAB

CHECKED BY: GMS

ISSUES AND REVISIONS:

PERMIT ISSUE 01.25.2021

REVISION 1 02.10.2021

SHEET TITLE:
MECHANICAL SCHEDULES AND DETAILS

M200

FOR QUESTIONS, CALL THE:
 OHIO REGIONAL OFFICE
 806 MORRISON ROAD, GAHANNA, OH 43230
 PHONE: (600) 948-6945
 FAX: (615) 227-5925

CUSTOMER APPROVAL TO MANUFACTURE:
 Approved as Noted
 Approved with ND Exception Taken
 Revised and Resubmit

SIGNATURE: _____
 Your Title: _____ Date: _____

HANGING ANGLE LOCATIONS			
HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"H)	DIM FROM FRONT (30"H)
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF BD-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/ANLFT. (LOAD)
 SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
 TOTAL DUCT AREA=144 X $\frac{CFM}{FM^3}$
 DUCT LENGTH= $\frac{TOTAL DUCT AREA}{DUCT DEPTH}$

*CAPTIVE-AIRE DUCT CONNECTION SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 300-400 FPM.

BUILDING CODES

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

UL LISTED LISTED UNDER ETL FILE NUMBER 3054804-001/002

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

INSTALLATION

- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
- ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
- HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
- ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
- COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
- EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
- ALL LIGHTS/FIXTURES SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
- LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
- SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
- INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
- KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DRINK AREA.
- RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

- WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
- SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

HOOD INFORMATION - JOB#4664448

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG			SWITCHES		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL			SP	END TO END	ROW	QUANTITY	LOCATION	
1		5430 ND-2-PSP-F	CAPTIVEAIRE	10' 0"	600 DEG	I	HEAVY	230	2300			4'	16'	2300	1647	-0.770"	1900	430 SS WHERE EXPOSED	ALONE	ALONE			
2		4230 VHB-G-PSP-F-ND	CAPTIVEAIRE	7' 0"	700 DEG	II	N/A	136	950			4'	12'	950	1210	-0.106"	760	430 SS 100%	ALONE	ALONE	1 FAN 1 LIGHT	FRONT RIGHT FACE	

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

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM	HOOD HANGING PIPING	HOOD WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE				ELECTRICAL
1		CAPTRATE SOLID FILTER	7	20"	16'	85% SEE FILTER SPEC	5	RECESSED	NO	LEFT	12"x54"x30"	CAS ELECTRIC VET CHEMICAL	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	941 LBS
2							4	RECESSED	NO							NO	340 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 128.00" HIGH X 190.00" LONG 430 SS VERTICAL. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. RISER SENSOR INSTALL 3IN DBL.
2		FIELD WRAPPER 18.00" HIGH FRONT, RIGHT. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	132'	14'	6'	MUA	8"	36"		633	0.179"
						MUA	8"	36"		633	0.179"
2		Front	84'	9'	6'	MUA	6"	28"		380	0.118"
						MUA	6"	28"		380	0.118"

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

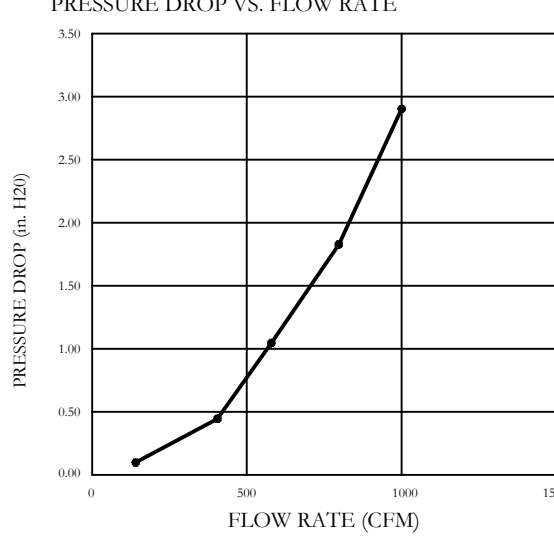
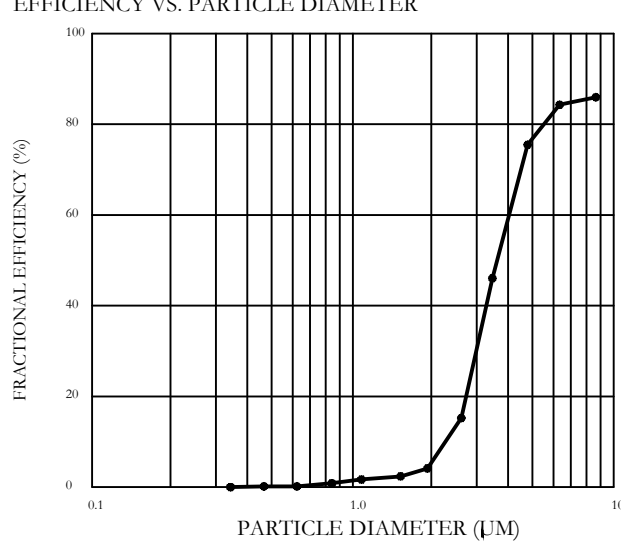
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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

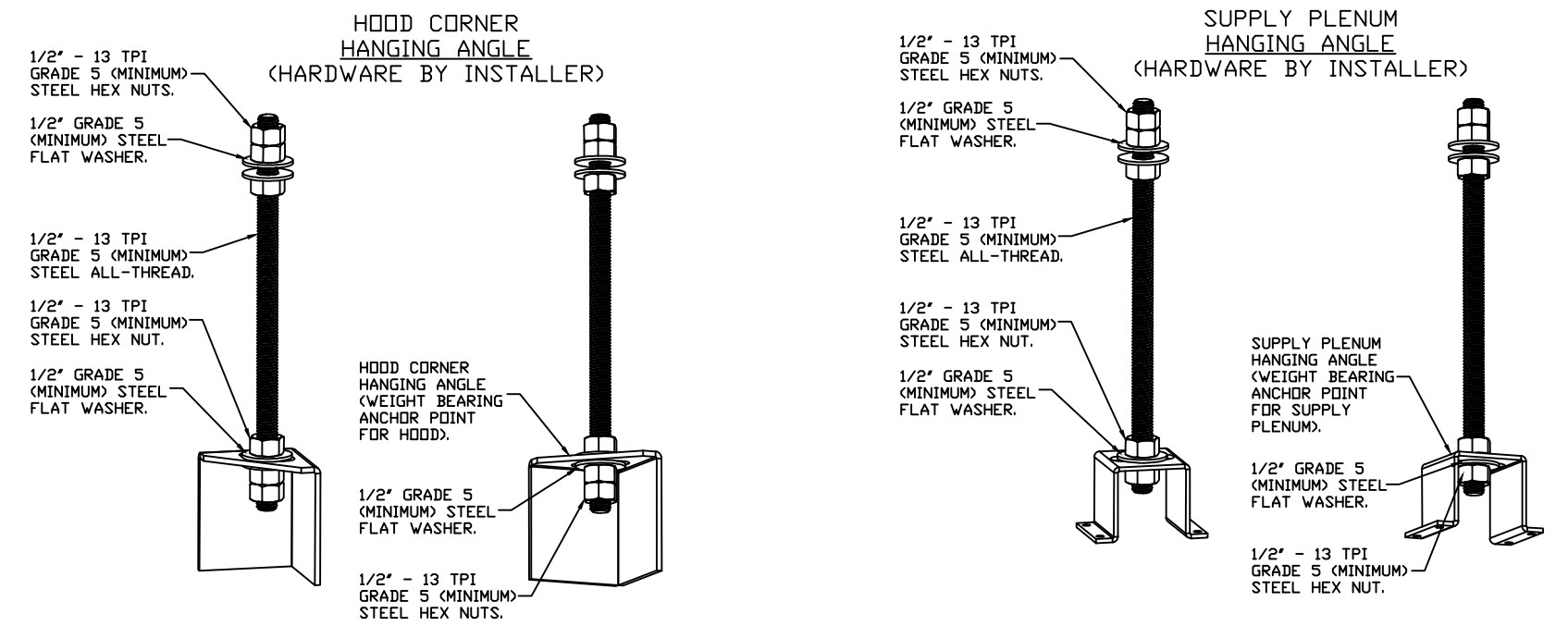
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

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



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 PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

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



Bibibop - Streets Of West Pryor
 2050 NW Lowenstein Dr,
 Lee's Summit, MO, 64081

DATE: 2/9/2021
 DWG.#: 4664448
 DRAWN BY: MAP-52
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 1



CONSULTANT:

SEAL/SIGNATURE:

INCLUDED FOR REFERENCE ONLY - INFORMATION HAS BEEN USED TO DESIGN DUCTWORK SERVING EQUIPMENT FURNISHED BY CAPTIVE AIRE

PROJECT:



STREETS OF WEST PRYOR

2050 NW LOWENSTEIN DR. SUITE E
 LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
 BIBIBOP P.O.: TBD

PROJECT NO.: 0421995-101

DRAWN BY:

CHECKED BY:

ISSUES AND REVISIONS:

PERMIT ISSUE 01.25.2021

REVISION 1 02.10.2021

SHEET TITLE:

HOOD PLANS

H101

FOR REFERENCE ONLY

FOR QUESTIONS, CALL THE:
OHIO REGIONAL OFFICE
806 MORRISON ROAD, GAHANNA, OH 43230
PHONE: (614) 248-0945
FAX: (614) 227-5925

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
Approved with NO Exception Taken
Revise and Resubmit

SIGNATURE _____ Date: _____
Your Title: _____

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"H)	DIM FROM FRONT (30"H)
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF BD-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/UNIT. (LOAD)
SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
TOTAL DUCT AREA=144 X (CFM)²
DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH

* CAPTIVE-AIRE DUCT CONNECTION SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 300-400 FPM.

BUILDING CODES

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

Listed under ETL File number 3054804-001/002

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

INSTALLATION

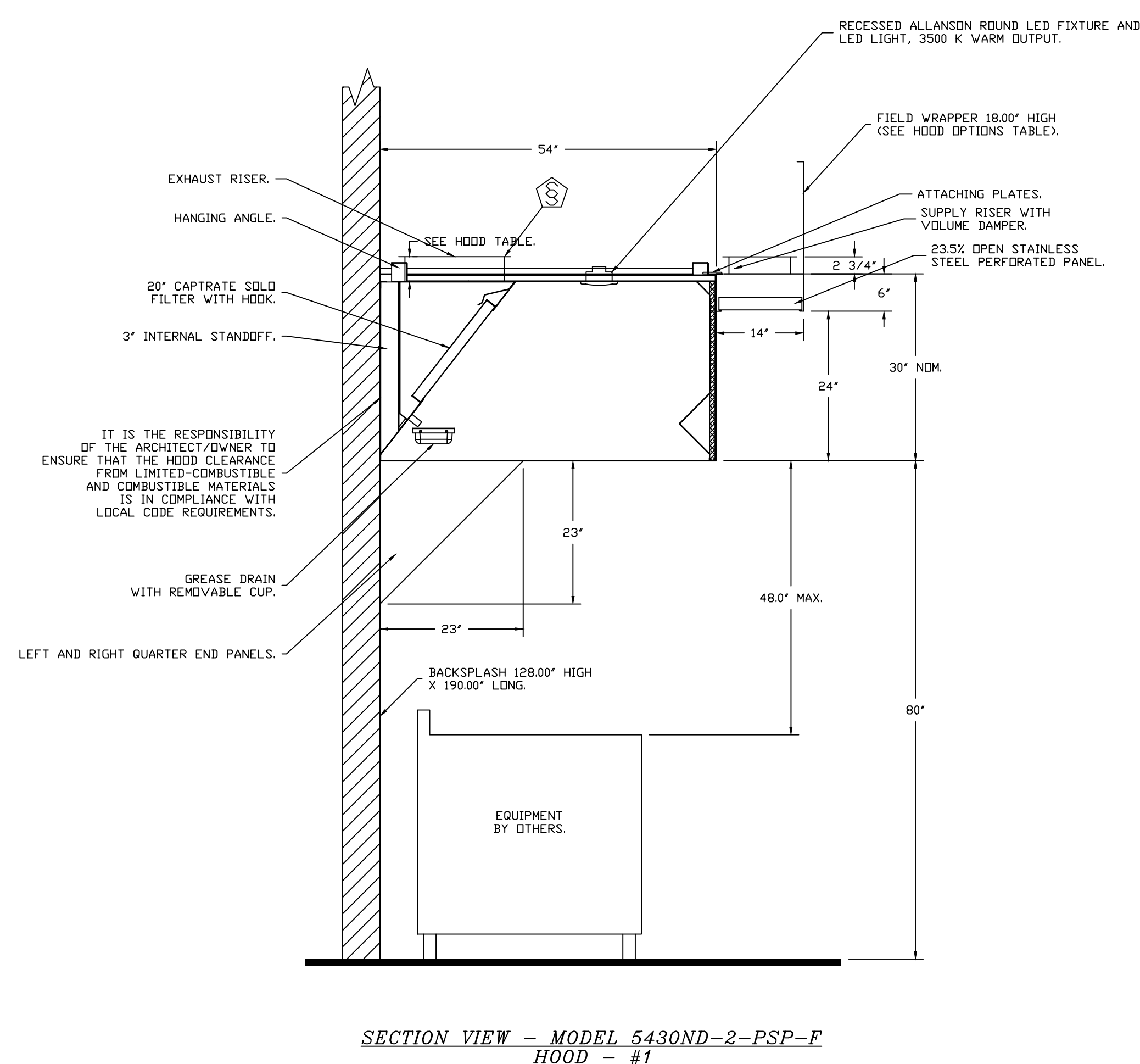
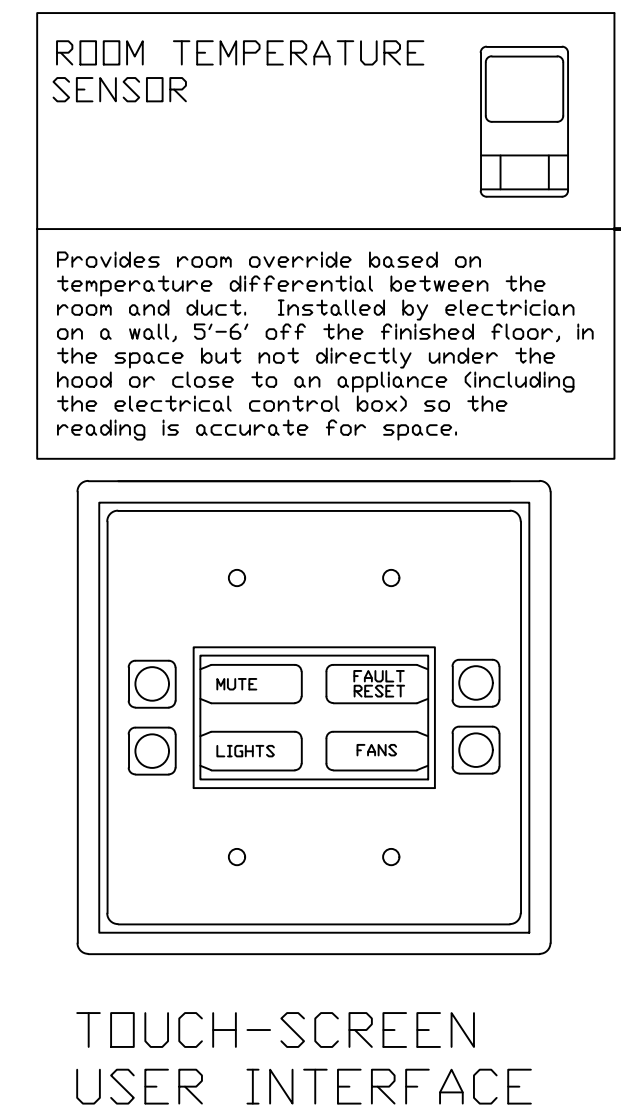
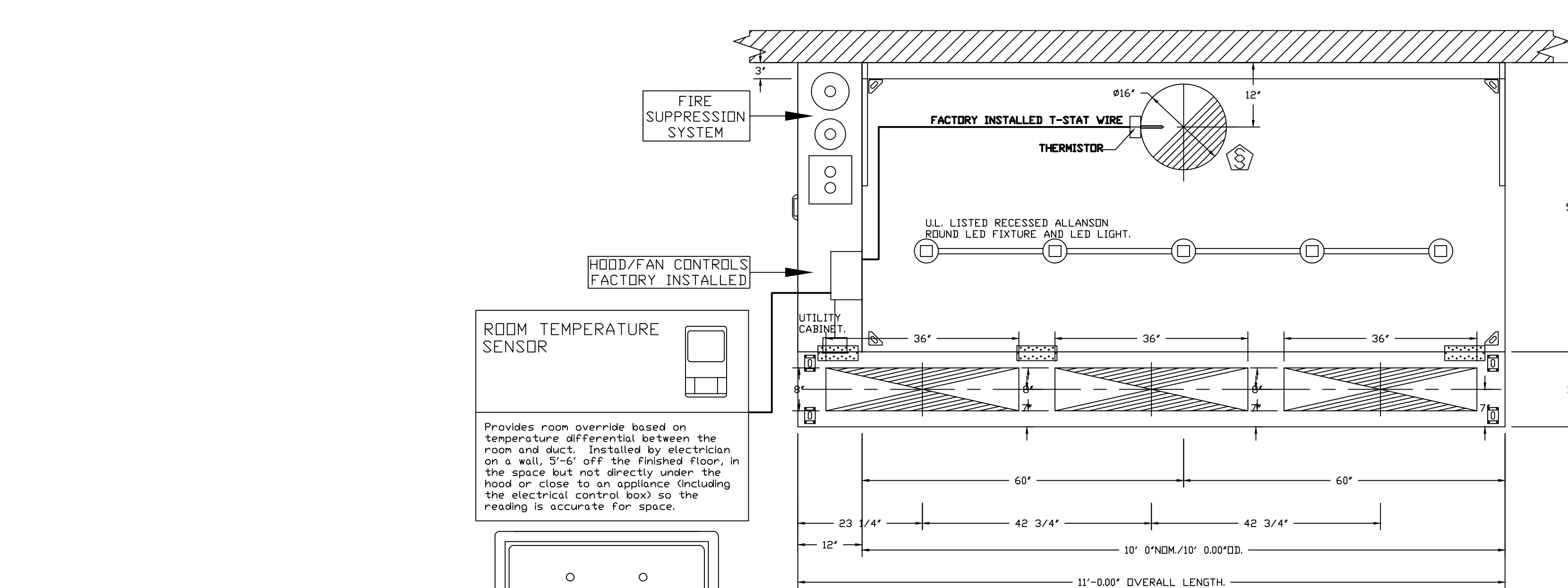
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- HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
- ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
- COOKING EQUIPMENT TO SHUT-OFF IN EVENT OF FIRE.
- EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
- ALL LIGHTS FIXTURE SHOWN INSTALLED BY FIRE-ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
- LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
- SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
- INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
- KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
- RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

- WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
- SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.



VERIFY CEILING HEIGHT

Height required to verify that the hood will fit and to size the enclosure panels

ND-2 Series with PSP Accessory Specification

The model ND-2 with PSP Accessory is a compensating canopy hood rated for all types of cooking equipment. The hood shall have the size, shape and performance specified on drawings.

Construction shall be type 430 stainless steel, with a #3 or #4 polish where exposed. The manufacturer, ETL and NSF shall determine the individual component construction. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. The hood shall be wall type with a minimum of four connections for hanger rods. Connectors shall have 9/16\"/>

The hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator. The filters shall extend the full length of the hood and the filter panels shall not be more than 6\"/>

The hood manufacturer shall supply complete computer generated submittal drawings including hood sections view(s) and hood plan view(s). These drawings must be available to the engineer, architect and owner for their use in construction, operation and maintenance.

Exhaust duct collar to be 4\"/>

UL incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4\"/>

The hood shall have:

- A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- An integral front baffle to direct grease laden vapors toward the exhaust filter bank.
- A built-in wiring chase provided for outlets and electrical controls on the hood face and shall not penetrate the capture area or require an external chase way.
- Removable grease cup for easy cleaning.

The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", NSF Listed and built in accordance with NFPA 96.

The hood shall be listed for 450°F cooking surfaces at 150 CFM/Ft., 600°F cooking surfaces at 200 CFM/Ft., and 700°F cooking surfaces at 250 CFM/Ft. The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper".

REVISIONS

DESCRIPTION	DATE

CAPTIVE-AIRE

Northern Ohio Office
www.captiveaire.com
806 Morrison Rd, Gahanna, OH, 43230 PHONE: FAX: (614) 227-5925 EMAIL: req52@captiveaire.com

Bibibop - Streets Of West Pryor
2050 NW Lowenstein Dr,
Lee's Summit, MD, 64081

DATE: 2/9/2021
DWG.#: 4664448
DRAWN BY: MAP-52
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
2

finn daniels
ARCHITECTS
2145 Ford Parkway, Suite 301
Saint Paul, Minnesota 55116
651.690.5525
www.finn-daniels.com

CONSULTANT:

SEAL/SIGNATURE:

INCLUDED FOR REFERENCE ONLY - INFORMATION HAS BEEN USED TO DESIGN DUCTWORK SERVING EQUIPMENT FURNISHED BY CAPTIVE AIRE

PROJECT:

asian grill
STREETS OF WEST PRYOR

2050 NW LOWENSTEIN DR.
SUITE E
LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
BIBIBOP P.O.: TBD

PROJECT NO.: 0421995-101

DRAWN BY:

CHECKED BY:

ISSUES AND REVISIONS:

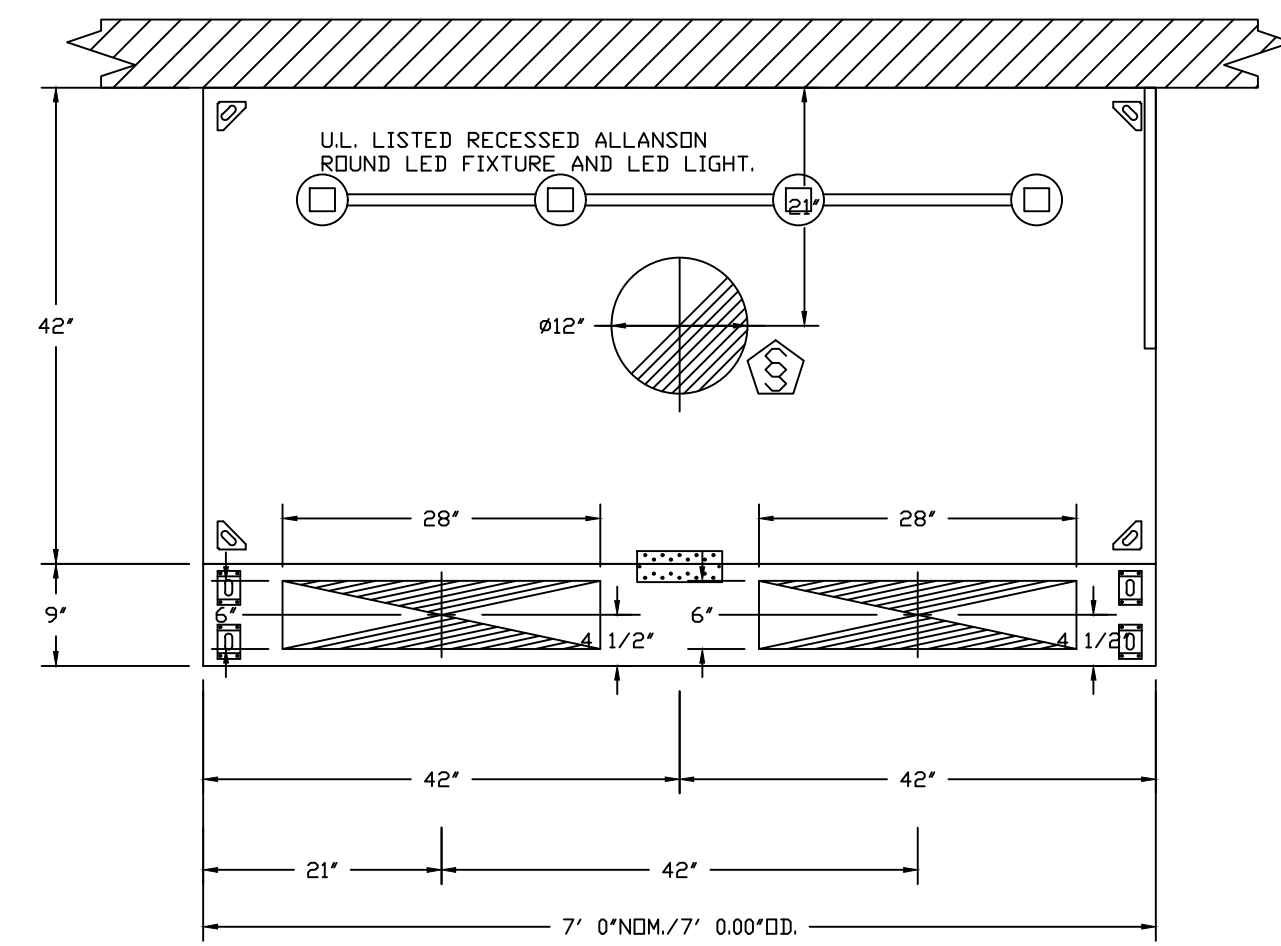
PERMIT ISSUE 01.25.2021

REVISION 1 02.10.2021

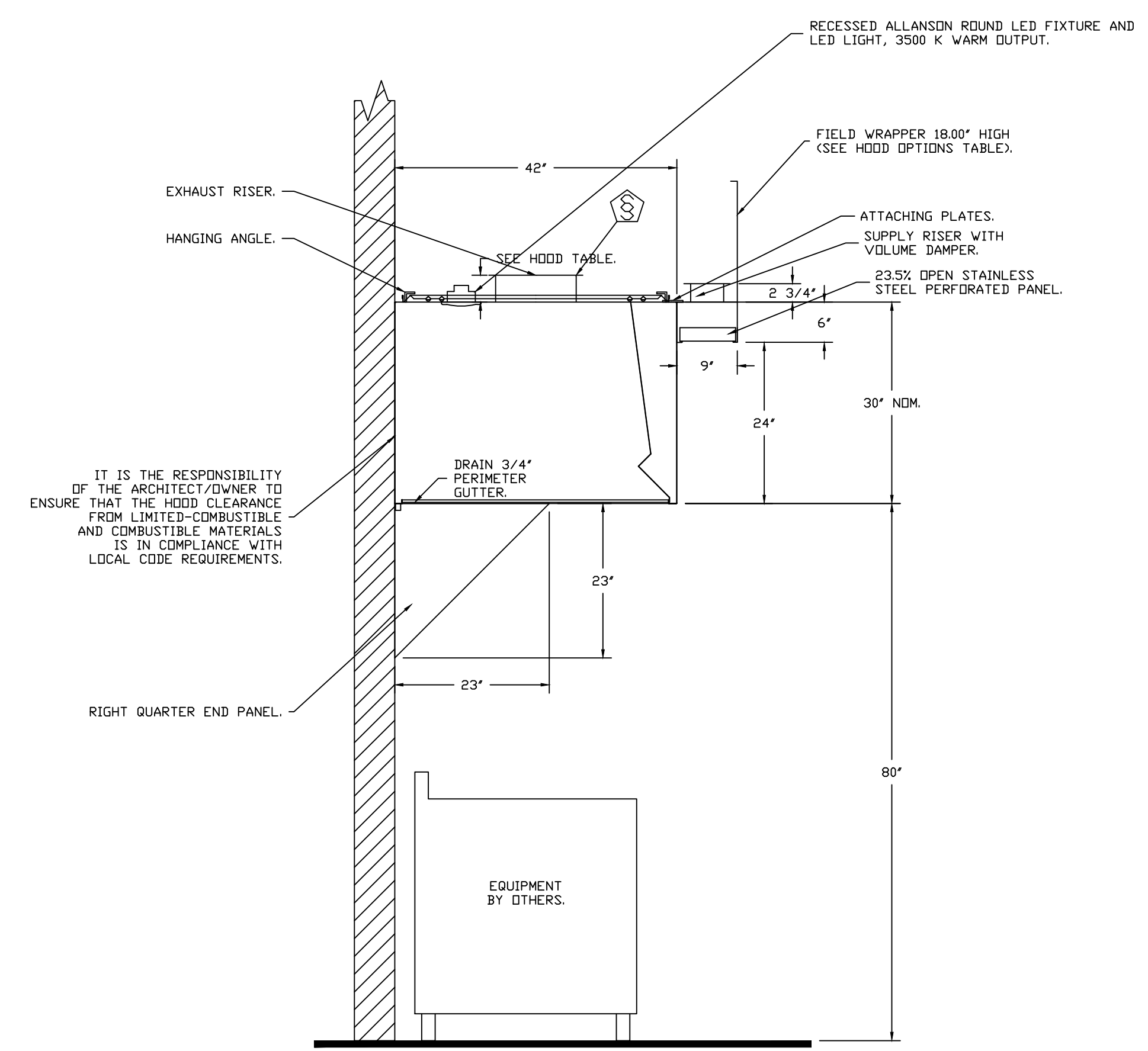
SHEET TITLE:
HOOD PLANS

H102

FOR REFERENCE ONLY



PLAN VIEW - HOOD #2
7' 0.00" LONG 4230VHB-G-PSP-F-ND



SECTION VIEW - MODEL 4230VHB-G-PSP-F-ND
HOOD - #2

VERIFY CEILING HEIGHT
Height required to verify that the hood will fit and to size the enclosure panels

VHB-G Series Specification
The VHB-G series heat/condensate hood is a single wall vent hood used in non-grease applications for the removal of heat, vapor etc. Hood shall have the size, shape and performance specified on the drawings.
Construction shall be type 304 stainless steel with a #3 or #4 polish where exposed. Hood shall have a full perimeter gutter with a 1/2" OD Bolt thread drain connection. Hood shall be wall or island type with fully welded 10 gauge corner hanging angles. Corner hanging angles have a .625 x 1.500 slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installations. Hanging rod and connection is provided by and installed by others.
The hood manufacturer shall supply complete submittal drawings including hood section view(s) and hood plan view(s). These drawings must be made available to the engineer, architect and owner for their use in construction, operation and maintenance.
Exhaust duct collar to be 4' high with 1' flanges. Duct sizes, CFM and static pressure requirements shall be as shown on the drawings. Hood shall be ETL Sanitation listed.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE
Northern Ohio Office
www.captiveaire.com
806 Morrison Rd, Gahanna, OH, 43230 PHONE: FAX: (614) 227-5925 EMAIL: reg62@captiveaire.com

Bibibop - Streets Of West Pryor
2050 NW Lowenstein Dr,
Lee's Summit, MD, 64081

DATE: 2/9/2021
DWG.#: 4664448
DRAWN BY: MAP-52
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

CONSULTANT:

SEAL/SIGNATURE:

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PROJECT:

BIBIBOP
asian grill
STREETS OF WEST PRYOR

2050 NW LOWENSTEIN DR.
SUITE E
LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
BIBIBOP P.O.: TBD

PROJECT NO.: 0421995-101

DRAWN BY:

CHECKED BY:

ISSUES AND REVISIONS:

PERMIT ISSUE 01.25.2021

REVISION 1 02.10.2021

SHEET TITLE:
HOOD PLANS

H103

FOR REFERENCE ONLY

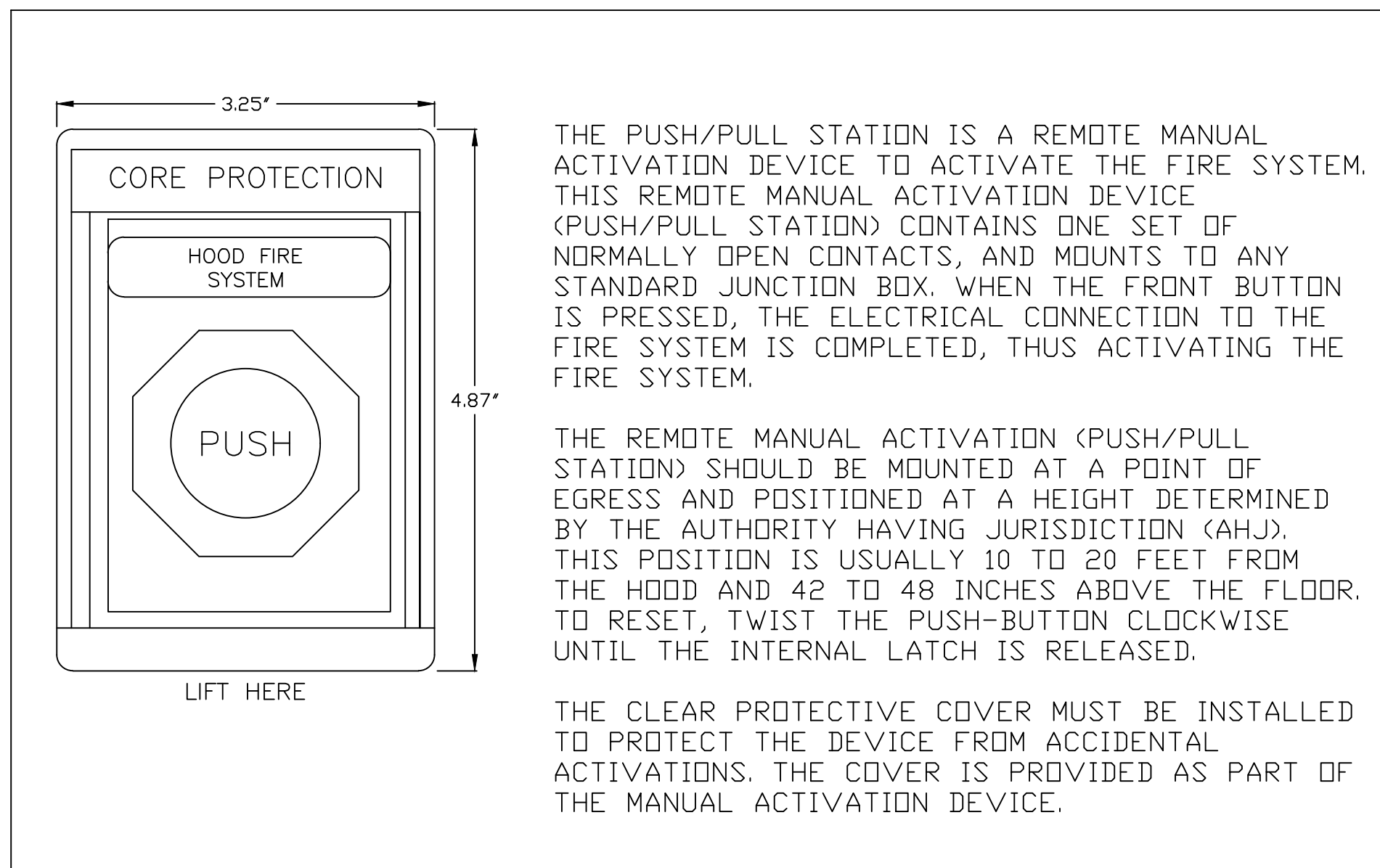
FIRE SYSTEM INFORMATION - JOB#4664448

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		CAS ELECTRIC WET CHEMICAL	4.0/4.0	12	FIRE CABINET LEFT	LEFT, HOOD 1

CAS VALVE(S)

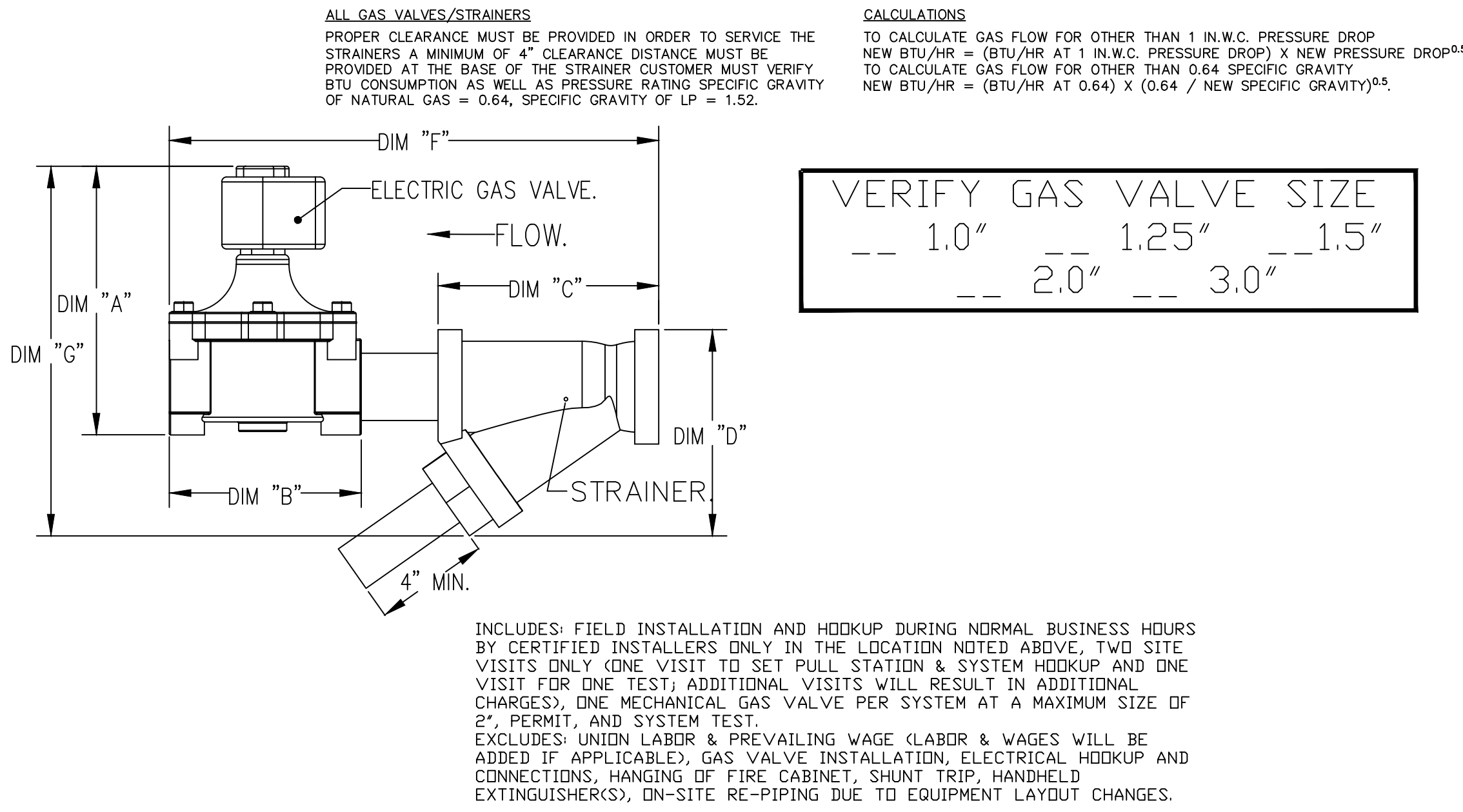
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

ELECTRIC WET CHEMICAL PULL STATION DETAIL

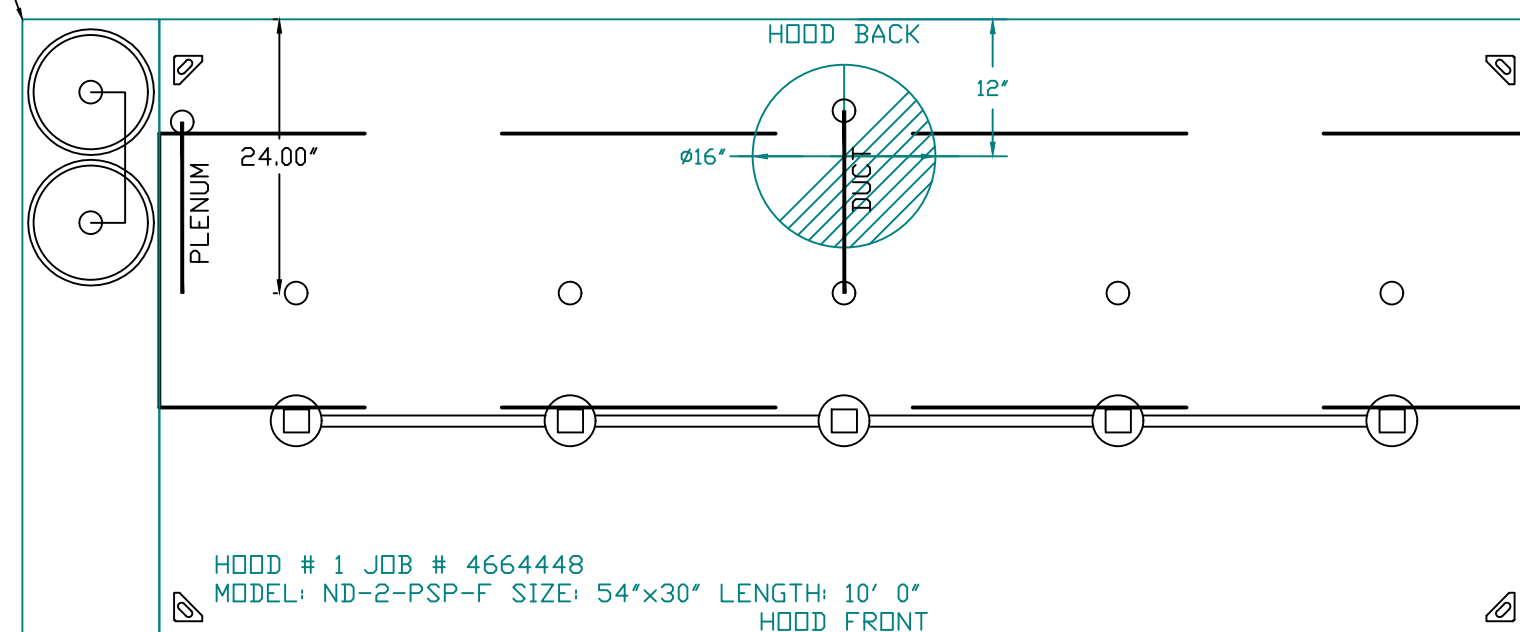


GAS VALVES AND STRAINERS

TYPE	SIZE	VOLTAGE	GAS VALVE SIZING		GAS VALVE DIMENSIONS							INSTALLATION	PART NUMBERS			
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"		MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	B214280	4417K68	(SC)EGVA2



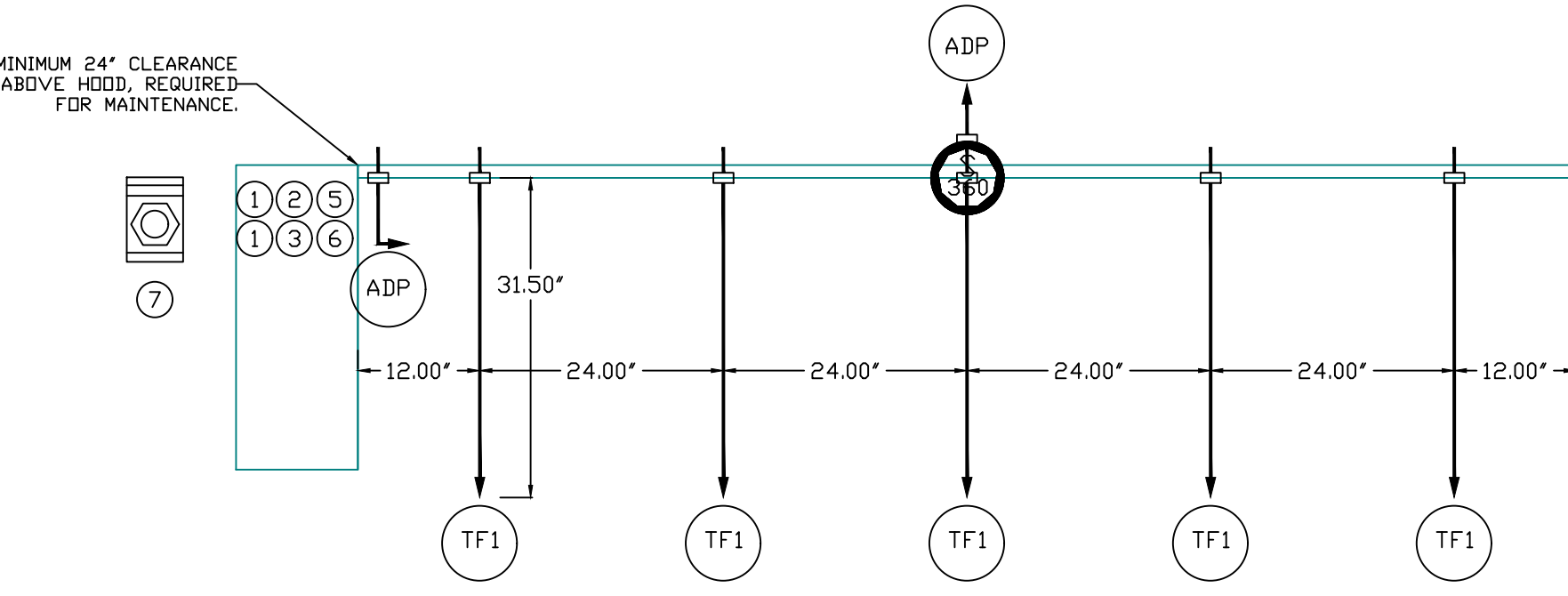
- SYSTEM REQUIRES A MINIMUM OF 7 FT. BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. SEE MANUAL FOR DETAILS.



JOB #: 4664448.
 JOB NAME: BIBIBOP - STREETS OF WEST PRYOR.
 SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 12.
 HOOD # 1 10' 0.00" LONG x 54" WIDE x 30" HIGH.
 RISER # 1 SIZE: 0" x 0".

NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER 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.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- MINIMUM 24" CLEARANCE ABOVE HOOD, REQUIRED FOR MAINTENANCE.
- FOR THE FIRST SET OF NOZZLES NEAREST THE TANK, PIPE TO THE END OF THE NOZZLE RUN THEN RETURN THE PIPE TO THE NEAREST NOZZLES TO TANK.

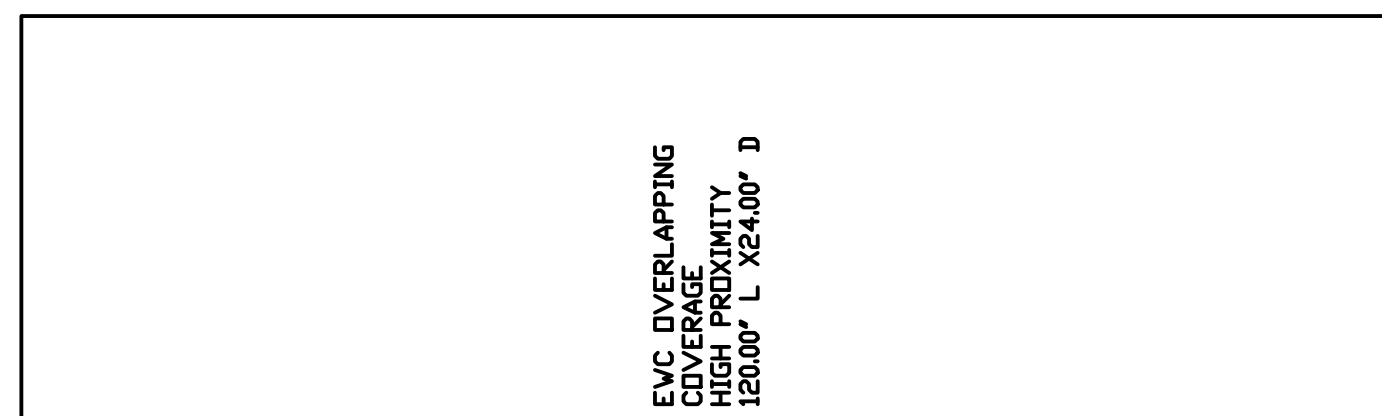


JOB #: 4664448.
 JOB NAME: BIBIBOP - STREETS OF WEST PRYOR.
 SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 12.
 HOOD # 1 10' 0.00" LONG x 54" WIDE x 30" HIGH.
 RISER # 1 SIZE: 16" DIA.

- 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.

LEGEND - FIRE CABINET CAS-EWC SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTIVATION DEVICE.
- TF1 NOZZLE ASSEMBLY (TF1).
- ADP NOZZLE ASSEMBLY (ADP).
- R NOZZLE ASSEMBLY (R).
- S SWIVEL ADAPTER.



REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
 Northern Ohio Office
 806 Morrison Rd., Gahanna, OH 43230 PHONE: (614) 227-5925 EMAIL: reg52@captiveaire.com

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finn daniels
 ARCHITECTS
 2145 Ford Parkway, Suite 301
 Saint Paul, Minnesota 55116
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HOOD PLANS

H104

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CAS ELECTRIC WET CHEMICAL PROTECTION ELECTRICAL DETAIL

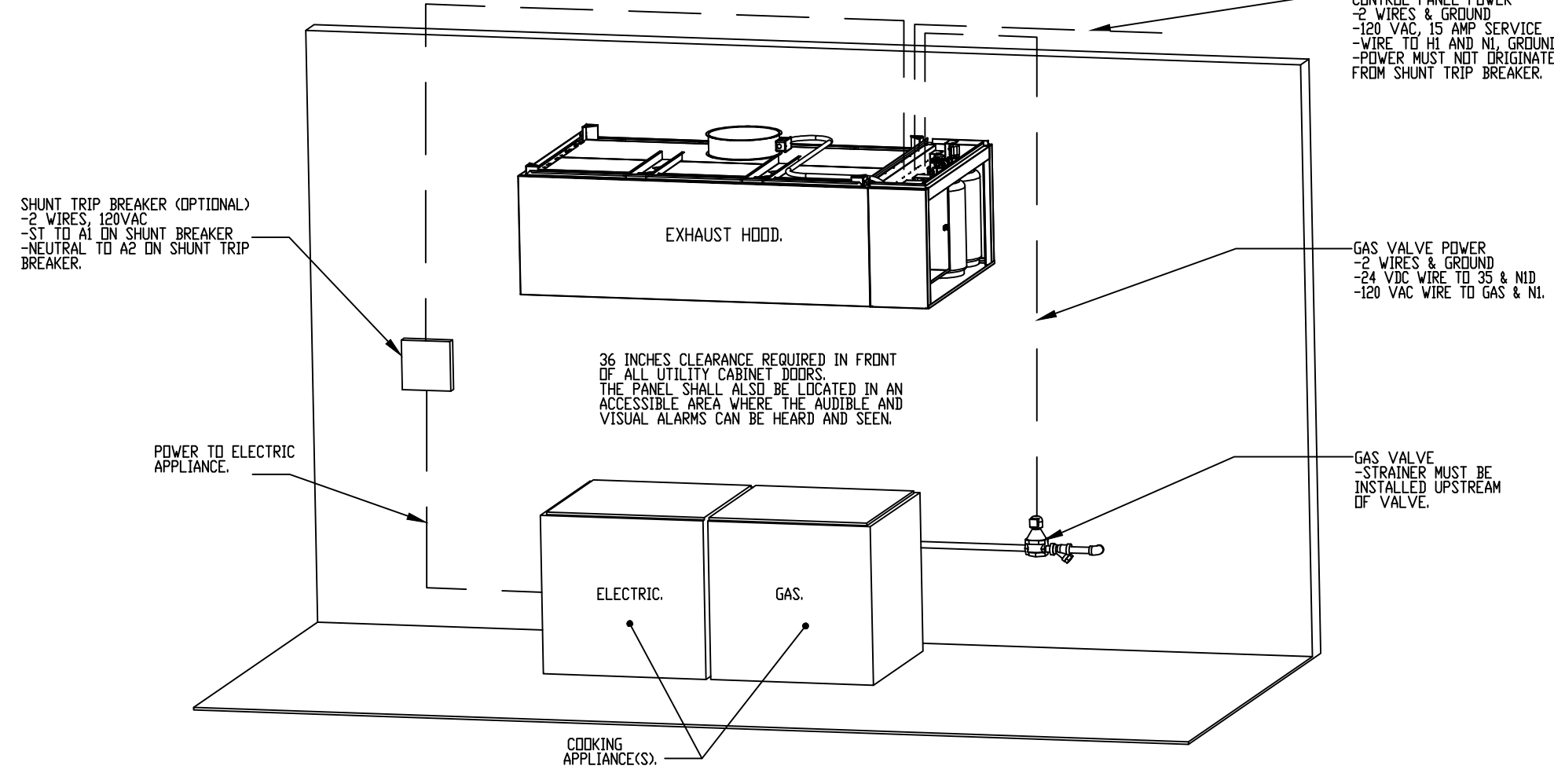
ELECTRICIAN:
 1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC.
 2. WIRE ALL FANS PER INCLUDED SCHEMATIC.
 3. WIRE SHUNT TRIP BREAKER (OPTIONAL).
 4. WIRE UPS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL).
 5. WIRE GAS VALVE.

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL.
CONTROL PANEL POWER	HI & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER.
UPS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES.
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL.
GAS VALVE	S1 & NI (UP TO 24 VAC) GAS & NI (UP TO 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, NOT TO RED, S1 TO RED AND GREEN TO GROUND. IF 120 VAC - 2 WIRES & GROUND, NOT TO RED, S1 TO RED AND GREEN TO GROUND.

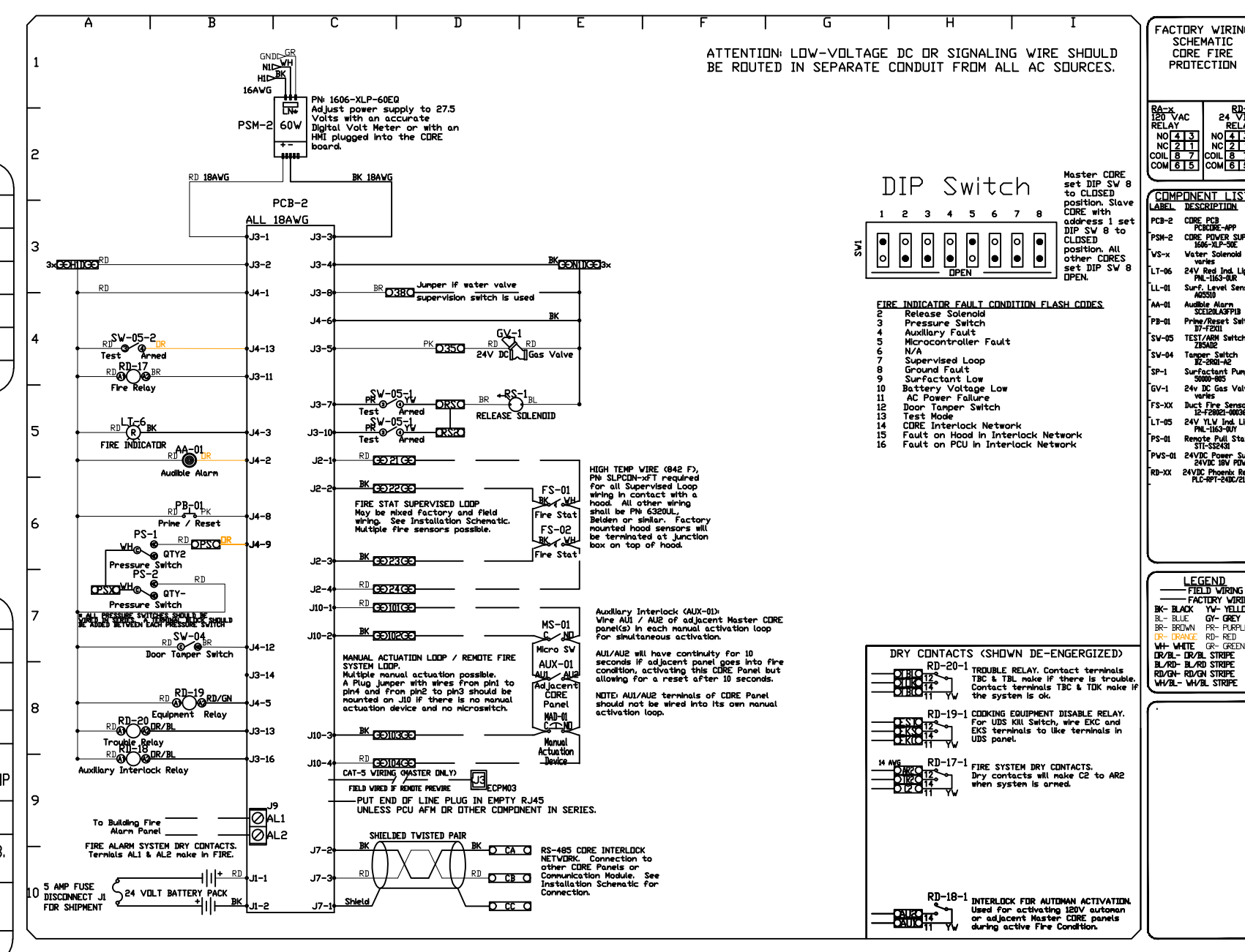
CAS ELECTRIC WET CHEMICAL PROTECTION LOW-VOLTAGE DETAIL

ALARM CONTRACTOR:
 1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCKS(S), FIRE SENSOR(S) AND FIRE ALARM CONTACT(S).
 2. COMPLETE FINAL WIRING OF SYSTEM.
 3. VERIFY FINAL FIRE SYSTEM TEST.

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103. WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104. JUMPER 101 TO 104 AND USE TO USE NO MANUAL ACTUATION DEVICE IS INSTALLED.
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED USE COVER EXTENSION ST1-ES3518.
REMOTE FIRESTAT SENSOR(S)	S1 AND S4 S2 AND S3	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23. WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24. HIGH TEMP (GMP7) BEW4427 (QW1) & BEW4427B (QW2) OR SIMILAR (ONLY IF BAY COVER TOP OF HOOD), OTHERWISE BELDEN 86300L OR SIMILAR PLENUM RATED WIRE. SEE FIGURE 1. FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL.
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	
CORE INTERLOCKS	ILA, ILB, ILC	ILA, ILB, ILC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) ILA, TO CORE SYSTEM (2) ILA, TO CORE SYSTEM (3) ILB, TO CORE SYSTEM (4) ILC, TO CORE SYSTEM (5) ILC. USE BELDEN 88760 OR SIMILAR WIRE.
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSURES IN TROUBLE CONDITION.
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	< 1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION.

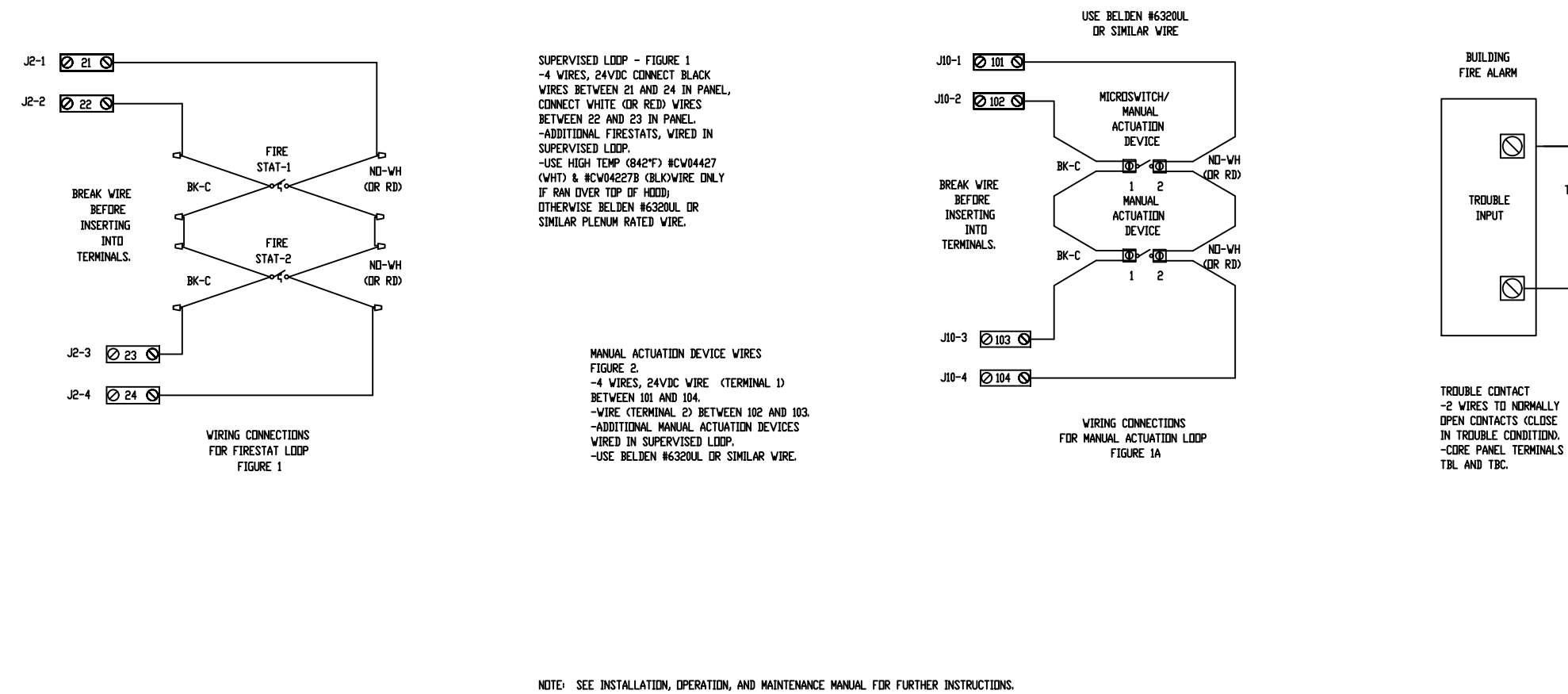


NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.



CAS ELECTRIC WET CHEMICAL PROTECTION LOW-VOLTAGE FIGURES

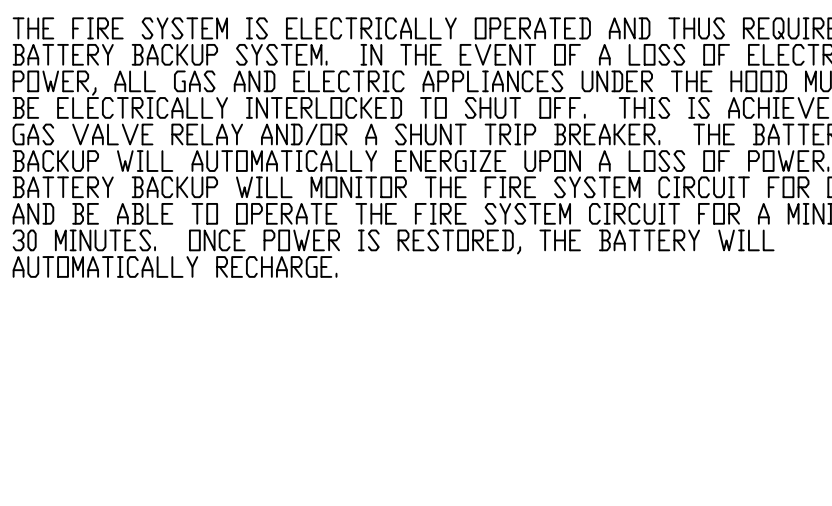
ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.



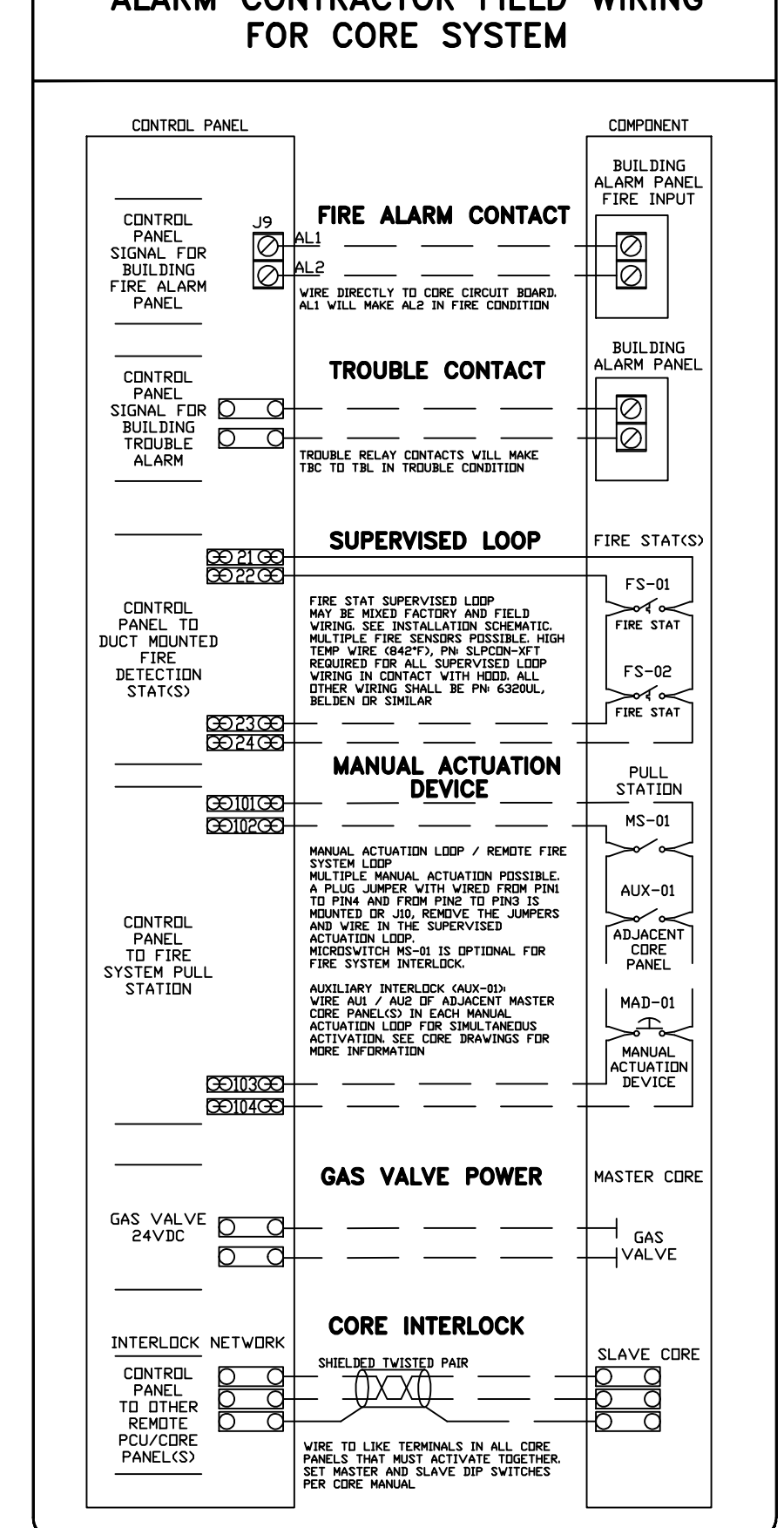
NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.

CORE ELECTRIC WET CHEMICAL PROTECTION FIRE SYSTEM

CORE ELECTRIC WET CHEMICAL (EWC) PROTECTION FIRE SYSTEMS CAN BE INSTALLED FOR HOOD FIRE PROTECTION, AS WELL AS POLLUTION CONTROL UNIT FIRE PROTECTION. IN THE EVENT OF A FIRE, OR ON MANUAL ACTUATION CORE EWC PROTECTION IS ACTIVATED.
 IF THE INSTALLED FIRESTAT IN THE AIRSTREAM SENSES A TEMPERATURE HIGHER THAN ITS INTERNAL SET POINT OR IF THE MANUAL ACTUATION DEVICE IS PUSHED THE FIRE SYSTEM IS ACTIVATED. IN KITCHEN HOODS AN ELECTRIC SOLENOID IS ENERGIZED ALLOWING THE FLOW OF WET CHEMICAL AGENT TO THE HOOD DUCT, PLENUM, AND APPLIANCES THROUGH THE FIRE SYSTEM DISTRIBUTION PIPING. IN A POLLUTION CONTROL UNIT, THIS ELECTRONIC SIGNAL ENERGIZES A SOLENOID ALLOWING THE FLOW OF WET CHEMICAL AGENT INTO THE INDIVIDUALLY PIPED MODULES.
 ONCE THE FIRE SYSTEM IS ACTIVATED, A "FIRE SYSTEM ACTIVATED" LIGHT IS ILLUMINATED ON THE CORE CONTROL PANEL AND AN AUDIBLE ALARM SOUNDS. FOR KITCHEN HOOD PROTECTION ALL GAS AND ELECTRIC APPLIANCES UNDER THE HOOD MUST BE ELECTRICALLY INTERLOCKED TO SHUT OFF. THIS IS ACHIEVED VIA A GAS VALVE RELAY AND/OR A SHUNT TRIP BREAKER.
 THE FIRE SYSTEM IS ELECTRICALLY OPERATED AND THUS REQUIRES A BATTERY BACKUP SYSTEM. IN THE EVENT OF A LOSS OF ELECTRICAL POWER, ALL GAS AND ELECTRIC APPLIANCES UNDER THE HOOD MUST BE ELECTRICALLY INTERLOCKED TO SHUT OFF. THIS IS ACHIEVED VIA A GAS VALVE RELAY AND/OR A SHUNT TRIP BREAKER. THE BATTERY BACKUP WILL AUTOMATICALLY ENERGIZE UPON A LOSS OF POWER. THE BATTERY BACKUP WILL MONITOR THE FIRE SYSTEM CIRCUIT FOR ONE DAY AND BE ABLE TO OPERATE THE FIRE SYSTEM CIRCUIT FOR A MINIMUM OF 30 MINUTES. ONCE POWER IS RESTORED, THE BATTERY WILL AUTOMATICALLY RECHARGE.



ALARM CONTRACTOR FIELD WIRING FOR CORE SYSTEM



REVISIONS	
DESCRIPTION	DATE

CAPTIVE

Northern Ohio Office
 808 Morrison Rd, Galena, OH, 43230
 PHONE: FAX: (614) 227-5926 EMAIL: reg52@captivewire.com

BIBIBOP
 asian grill
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SHEET NO. 5

finn daniels
 ARCHITECTS
 2145 Ford Parkway, Suite 301
 Saint Paul, Minnesota 55116
 651.690.5525
 www.finn-daniels.com

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SHEET TITLE:
HOOD PLANS

H105

EXHAUST FAN INFORMATION - JOB#4664448

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	DUI80HFA	CAPTIVEAIRE	2300	1.125	1058	DDP, PREMIUM	2.000	0.8990	3	208	6.1	531 FPM	189	12.3
3	EF-2	1	DU50HFA	CAPTIVEAIRE	950	0.500	1348	DDP	0.500	0.2690	1	115	8.4	361 FPM	104	12.9

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
2	MUA-1	A2-D.500-20D-MPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

MUA FAN INFORMATION - JOB#4664448

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	Ø	VOLT	FLA	MCA	MOCB	WEIGHT (LBS)	SDNES
2	MUA-1	1	A2-D.500-20D-MPU	20MF-2-MDD	A2-D.500	2000	2660	0.500	1388	DDP, PREMIUM	3.000	1.3580	3	208	9.5	11.9A	20A	1411	12.8

COILS - JOB#4664448

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING									HEATING																			
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY									
2	MUA-1	DX	2660	93.0°F	76.0°F	70.7°F	70.0°F	---	---	---	---	---	---	60.0 MBH	60.0 MBH	0.0 MBH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

CAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MUA-1	205871	189401	70°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX.
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
		1	UPBLAST FAN WHEEL ACCESS PORT.
		1	24" TALL STRAIGHT WIND BAND EXTENSION 18/20 (SHIPS LOOSE).
2	MUA-1	1	AC INTERLOCK RELAY - 24VAC COIL.
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	LDW FIRE START.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" W.C.
		1	EXTENDED POWER DROP.
		1	COOLING THERMOSTAT AND RELAY (NOT REQ FOR EVAP).
		1	5 TON SINGLE CIRCUIT MODULAR PACKAGED AC COOLING OPTION FOR SIZE 2 DF/EH MUA (1000 TO 2750 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1	DOWNTURN PLENUM FOR SIZE 2 DX COIL MODULE.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
3	EF-2	1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE. USED ON HEATERS UNDER 2500 CFM.
		1	36" TALL STRAIGHT WIND BAND EXTENSION 13 (SHIPS LOOSE).
		1	1 15-BDD DAMPER.
		1	SCR-13 BIRD SCREEN.

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	MUA-1						YES	
3	EF-2		YES					

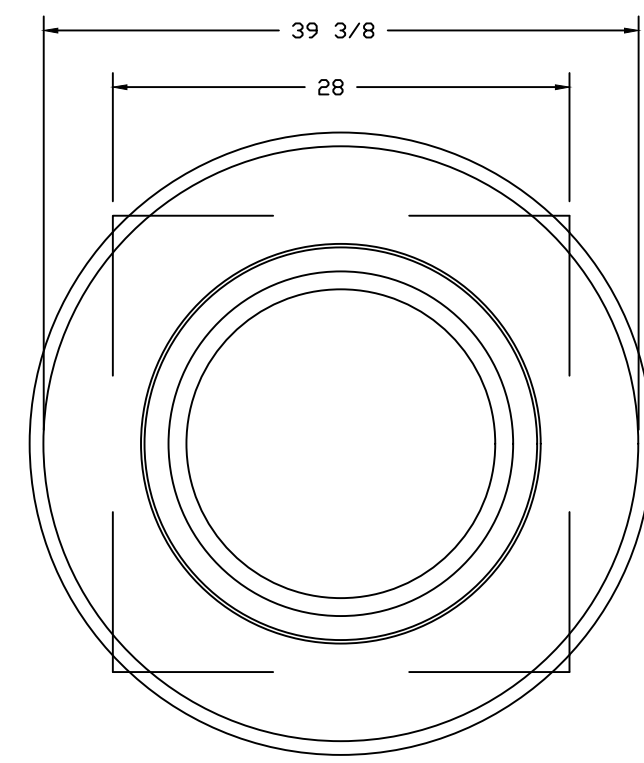
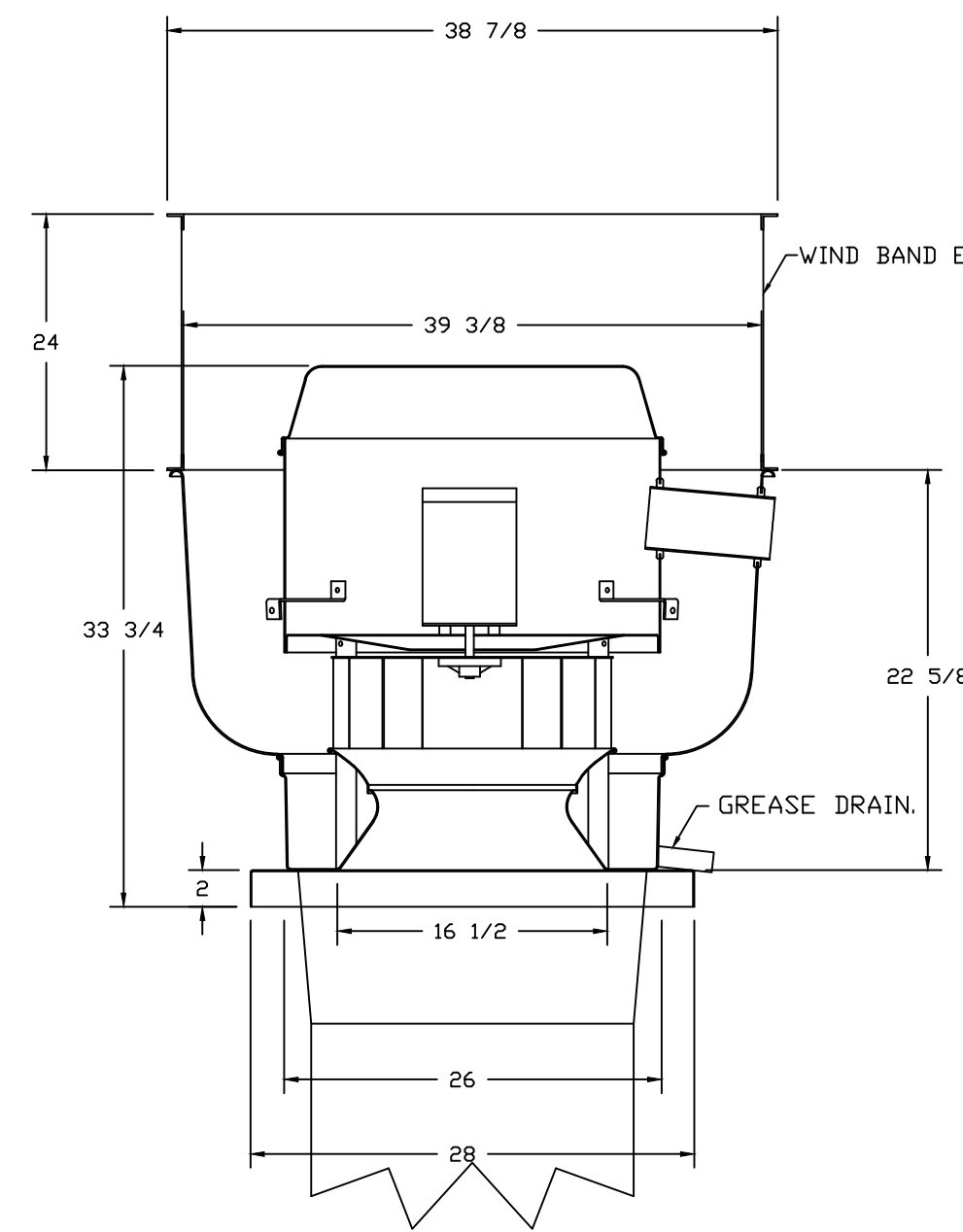
CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
2	# 2	MUA-1	107 LBS	CURB	31.000"W X 79.000"L X 20.000"H RIGHT INSULATED.
	# 2			RAIL	6.000"W X 31.000"L X 20.000"H RIGHT.
3	# 3	EF-2	31 LBS	CURB	19.500"W X 19.500"L X 20.000"H HINGED.

VERIFY ELECTRIC REQUIREMENTS
 _____ PHASE _____ VOLT
 Verify Electric Requirements to Ensure That Fan Motors and Electric Packages are Coordinated

VERIFY PITCH CURB
 _____ : _____
 Curb Pitch Required in order to manufacture the curb to specification.

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



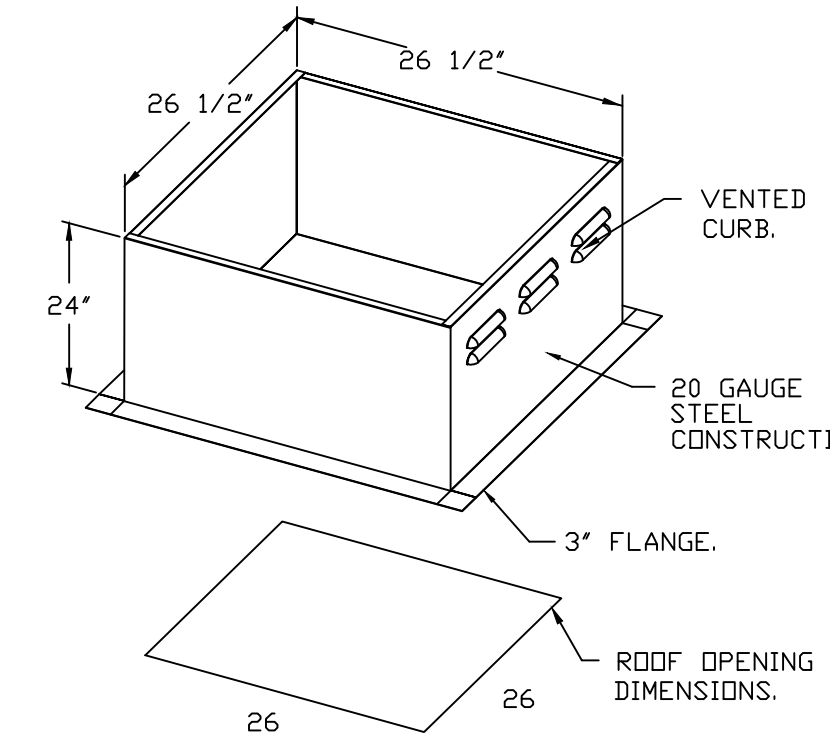
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ILC-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 DETRIMENTARY 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 OPERATION.

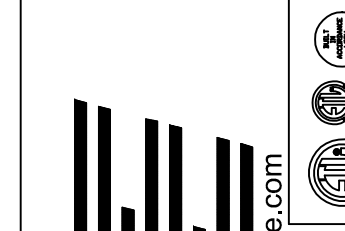
OPTIONS
 GREASE BOX.
 FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
 UPBLAST FAN WHEEL ACCESS PORT.
 24" TALL STRAIGHT WIND BAND EXTENSION 18/20 (SHIPS LOOSE).



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

REVISIONS

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 STREETS OF WEST PRYOR
 2050 NW LOWENSTEIN DR.
 SUITE E
 LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
 BIBIBOP P.O.: TBD

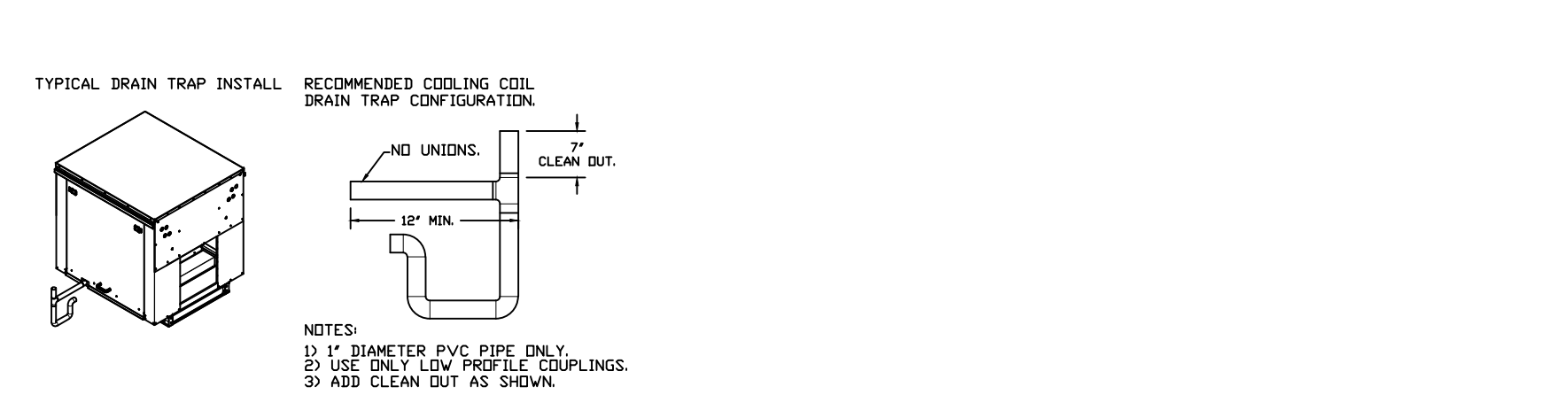
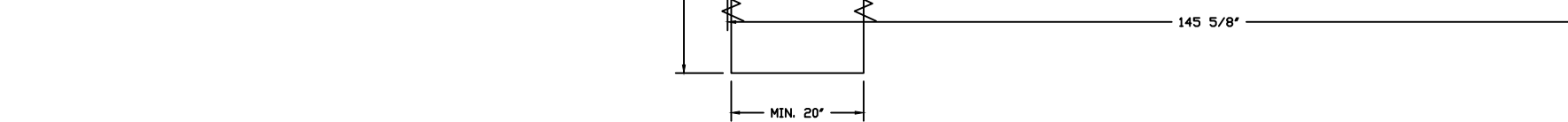
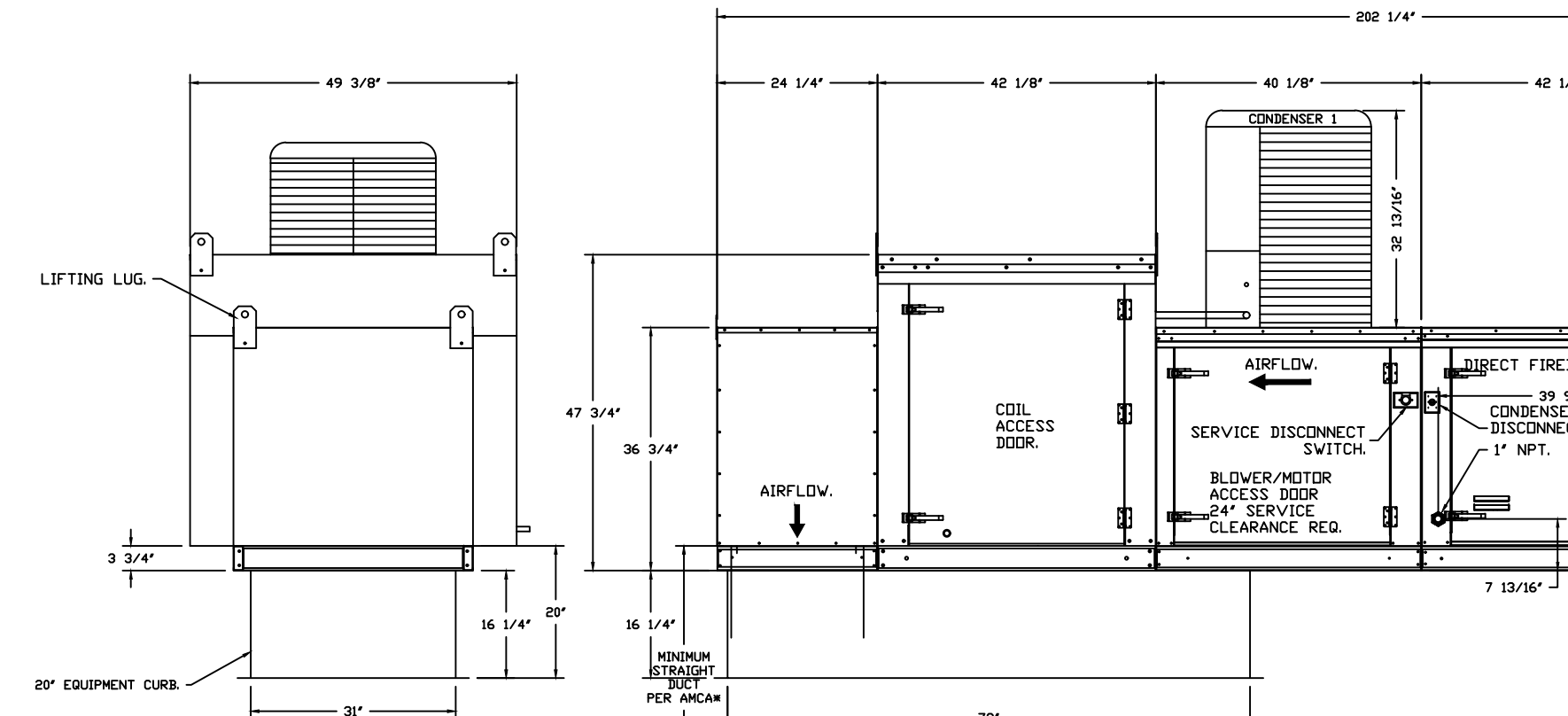
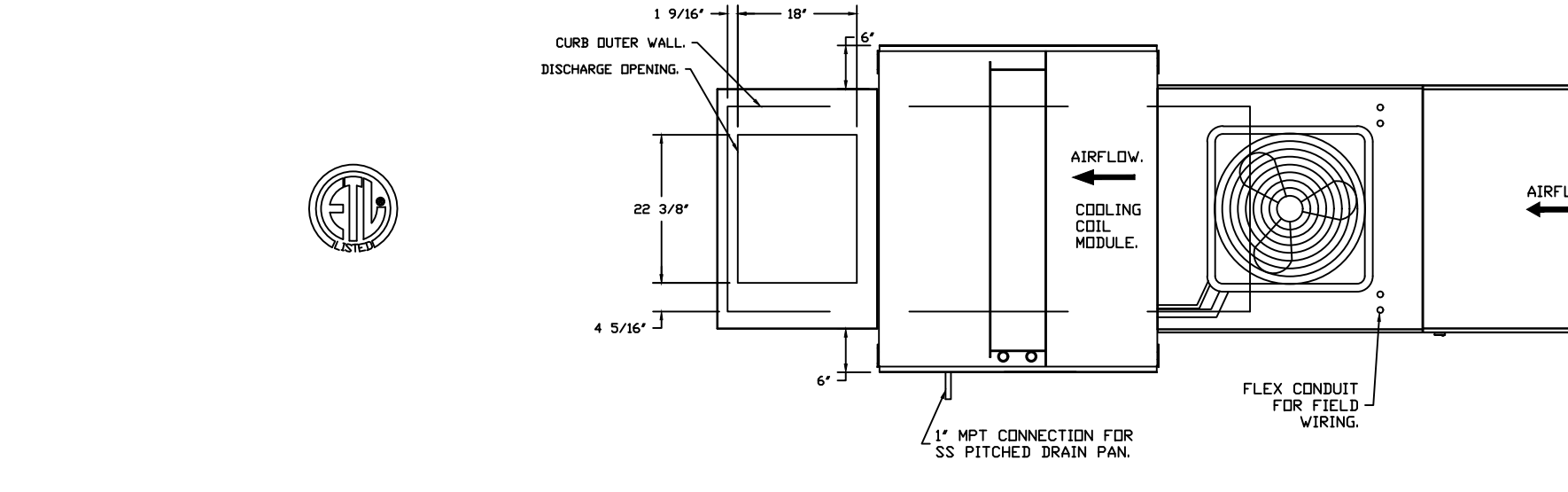
PROJECT NO.: 0421995-101
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 CHECKED BY:
 ISSUES AND REVISIONS:

PERMIT ISSUE 01.25.2021
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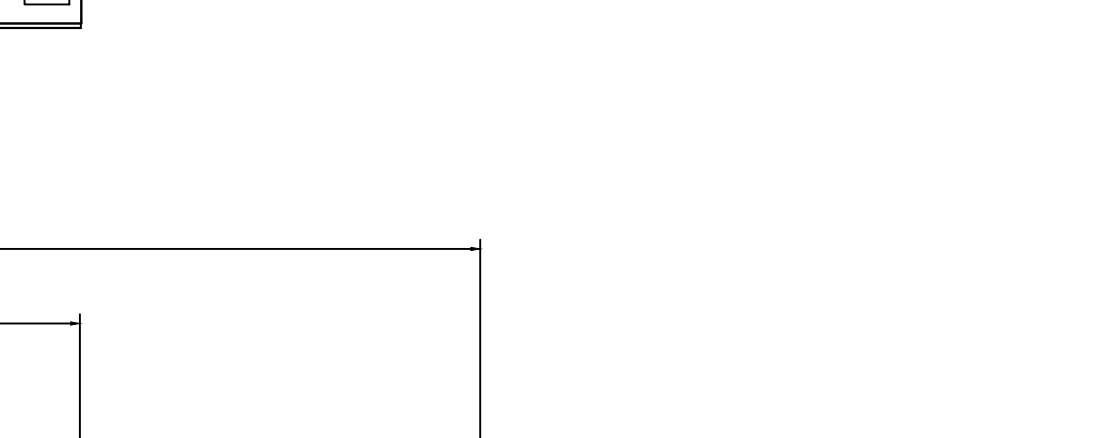
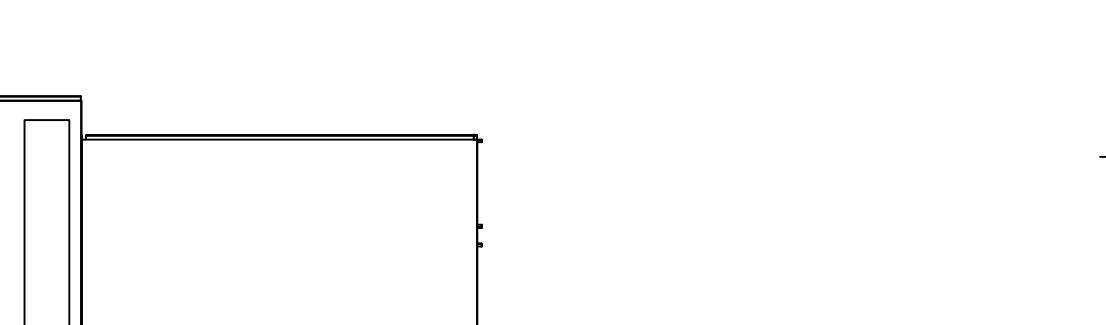
SHEET TITLE:
HOOD PLANS

H106

FAN #2 AR-2500-200-MPU - HEATER ONA-13
 1. DIRECT FIRE HEATER MADE UP OF AIR UNIT WITH 20" DIRECT DRIVE FAN.
 2. INTAKE HOOD WITH EZ FILTERS.
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 4. COOLING INTERLOCK RELAY - 24VAC COIL - 120V CONTACTS - LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 5. AUTOMATIC BURNER SHUT OFF 2 1/4" FOR SIZE 2 STANDARD 3/8" MODULAR HEATER UNITS WITH EXTENDED SWIFT, STANDARD GALVANNEED CONSTRUCTION 2 1/4" BOAR BLANKE, 120V LEAKAGE - 4 FUSES ACTUATOR INCLUDES.
 6. LOW FINE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 7. GAS PRESSURE GAUGE - 1/2" DIA - 1/4" NPT. FLEX CONDUIT.
 8. GAS PRESSURE GAUGE - 1/2" DIA - 1/4" NPT. FLEX CONDUIT.
 9. EXTENDED HOOD FOR COMMERCIAL - HEATERS AND SUPPLY FANS - EXTENDS THE POWER AND THERMOSTAT CONNECTIONS TO THE UNIT TO 20' OF TOTAL LENGTH.
 10. BY COOLING TRANE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 50°F.
 11. TO TOP SINGLE CIRCUIT MODULAR PACKAGE AC COOLING OPTION FOR SIZE 2 1/4" MODULAR PACKAGE UNIT INCLUDES: CONDENSER, COIL, FLEX CONDUIT, THERMAL OVERLOAD PROTECTION (T.O.P.), THERMAL SAFETY SWITCH, THERMAL SAFETY SWITCH AND REFRIGERANT PIPING. LOSS TO CONDENSER WHEN COIL IS OFF - THERMAL SAFETY SWITCH AND REFRIGERANT PIPING SHALL REMAIN IN STANDARD POSITION. BURNER AND BLEED VALVE MOVE TO THE OPPOSITE SIDE OF THE UNIT. CONDENSERS REQUIRE SEPARATE SERVICE DISCONNECT. CONDENSERS REQUIRE SEPARATE 200VA, 3 PHASE POWER SUPPLY UNLESS SPECIFIED WITH SINGLE POINT CONNECTION. COIL - 200VA.
 12. SEWAGE TRAP FOR SIZE 2 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
 13. SEPARATE LOWVAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PRECISE PANEL OR WITH 20V PACKAGE. PROVIDES SEPARATE LOWVAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICAL FIRM TO THE UNIT.
 14. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW VOLT APPLICATIONS.
 15. HUNG SLOPE WALL INSULATED EXER ASSEMBLY (BURNER/BLOWER/MPU SECTION).
 NOTES: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN ABOVE PUBLICATION FOR WHICH RECTANGULAR DUCTWORK. ELBOWS MUST BE RADIUS TIGHT, RANDED BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. AN EXHAUST FAN OR BLOWER SHALL NOT BE INSTALLED IN THIS SYSTEM. SYSTEM EFFECT, SYSTEM EFFECT WALL. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".



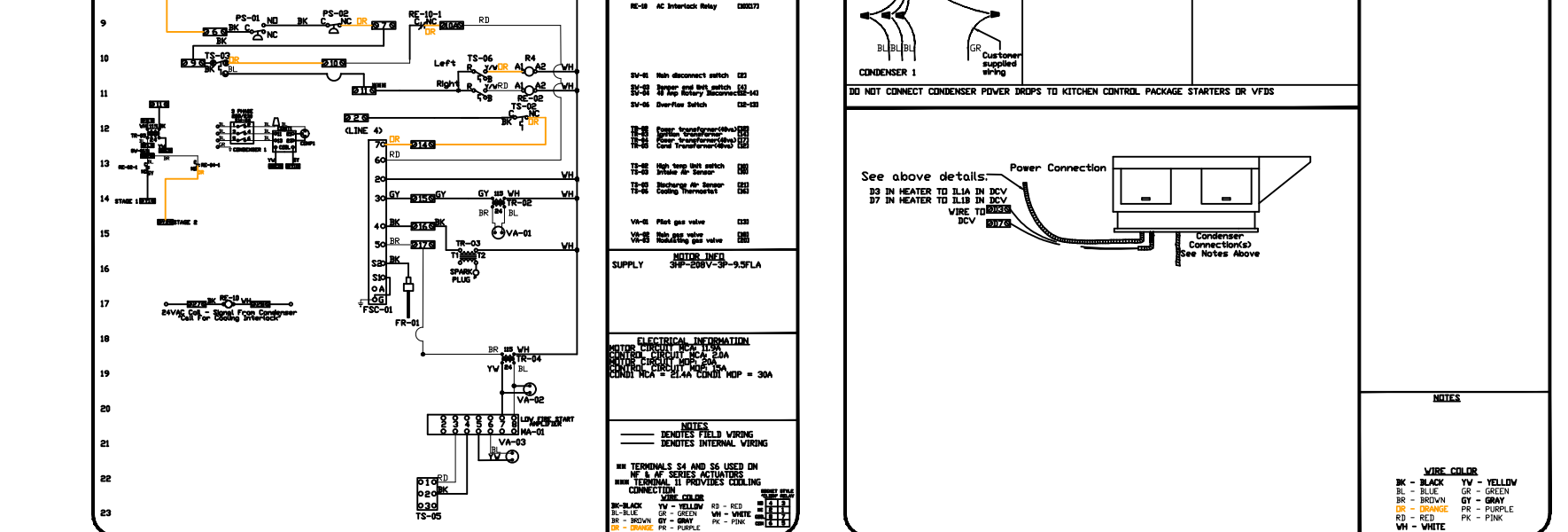
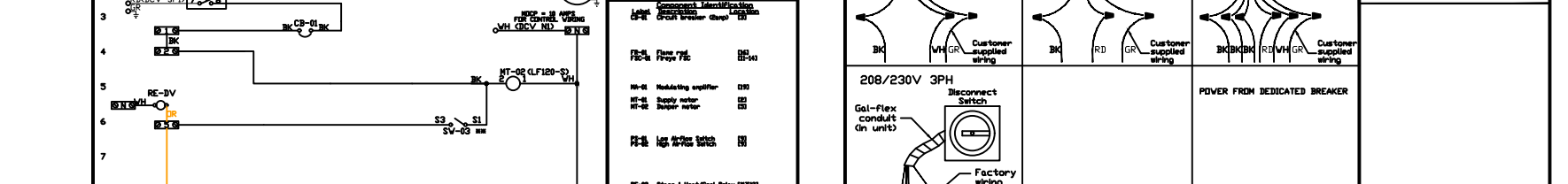
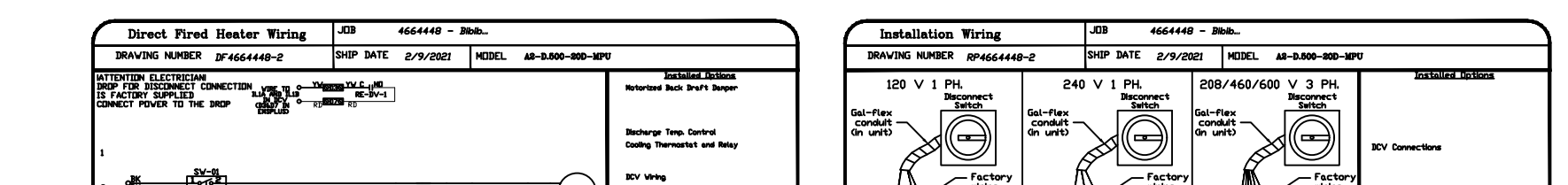
WIND BAND EXTENSION
 19 1/2" 20" 20 1/2" 19 1/2" 20" 20 1/2" 19 1/2" 20"
 CURB
 20 GAUGE STEEL CONSTRUCTION
 3" FLANGE
 16" 16" ROOF OPENING DIMENSIONS
 6" 12" 0" PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
 SPECIFY PITCH
 EXAMPLE: 7/12 PITCH = 30° SLOPE



FEATURES:
 - DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
 - ROOF MOUNTED FANS.
 - UL705.
 - VARIABLE SPEED CONTROL.
 - INTERNAL WIRING.
 - THERMAL OVERLOAD PROTECTION (GONGLE PHASED).
 - NEW 30" SAFETY DISCONNECT SWITCH.

DESIGNS:
 36" TALL STRAIGHT WIND BAND EXTENSION
 13 CHIPS LAMINATE
 1/2" HOOD DAMPER
 SOR-13 BIRD SCREEN

DIRECT FIRED GFCI PROFILE PLATE ASSEMBLY
 GFCI PROFILE PLATE ASSEMBLY
 DIRECT FIRED BURNER PROFILE PLATE AND ENGINEERS TO AUTOMATICALLY REACT TO THE MONITORING OF P-FLOW AND STAYAWAY FROM THE NEED FOR ANY OTHER REVISIONS TO REGENERALLY REACT WITH THE FEATURE. ALL OF UNITS ARE DESIGNED FOR SENSING CONTROL VENTILATION (CV) REQUIREMENTS.



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DESCRIPTION	DATE:

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CAPTIVE
 Northern Ohio Office
 806 Morrison Rd., Gahanna, OH 43230 PHONE: (614) 227-5925 EMAIL: reg52@captiveaire.com

CONSULTANT:
 SEAL/SIGNATURE:
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PROJECT:

 asian grill
 STREETS OF WEST PRYOR
 2050 NW LOWENSTEIN DR. SUITE E
 LEE'S SUMMIT, MO 64081

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DATE: 2/9/2021
 DWG #: 4664448
 DRAWN BY: MAP-52
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING
 SHEET NO. 7

SHEET TITLE:
HOOD PLANS
H107

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asian grill
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WEST PRYOR

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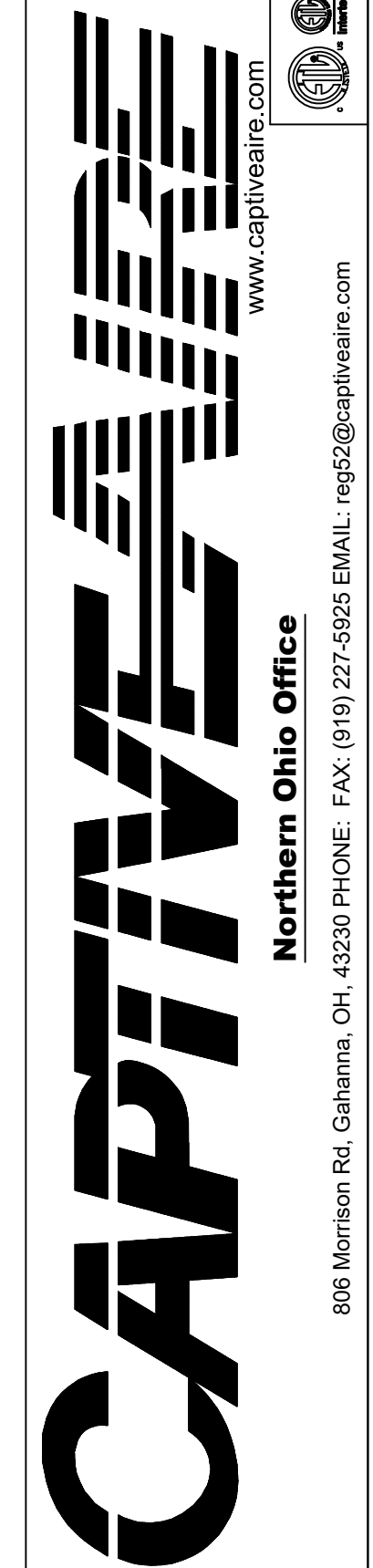
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SHEET TITLE:

HOOD PLANS

H108

REVISIONS	
DESCRIPTION	DATE



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PHONE: (614) 227-5925
EMAIL: reg52@captivewire.com

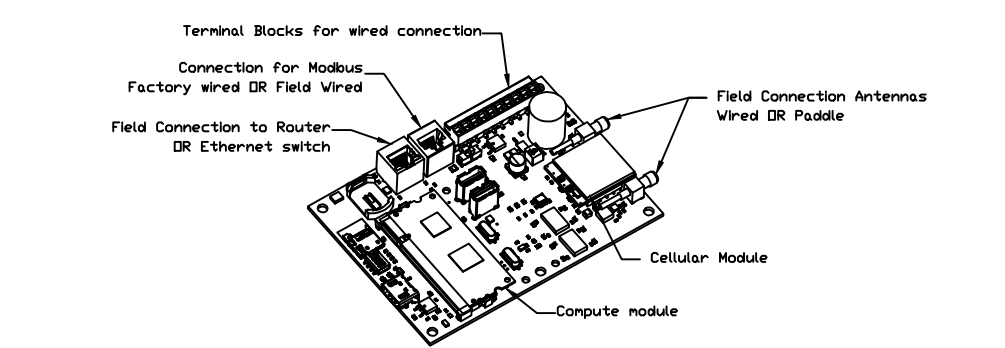
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SHEET NO. 8

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Ø	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT HOOD # 1	1 LIGHT	SMART CONTROLS DCV	EF-1	EXHAUST	3	2,000	208	6.1
				02 - FACE MOUNT RIGHT SIDE OF HOOD HOOD # 2	1 LIGHT		MUA-1	SUPPLY	3	3,000	208	9.5
2		Switches										

ALL POWER FEED FROM VARIABLE FREQUENCY DRIVES IN HOOD CONTROL PANEL TO FAN MOTORS MUST BE IN SEPARATE STEEL CONDUIT - OR MOTOR/VFD FAILURE MAY OCCUR

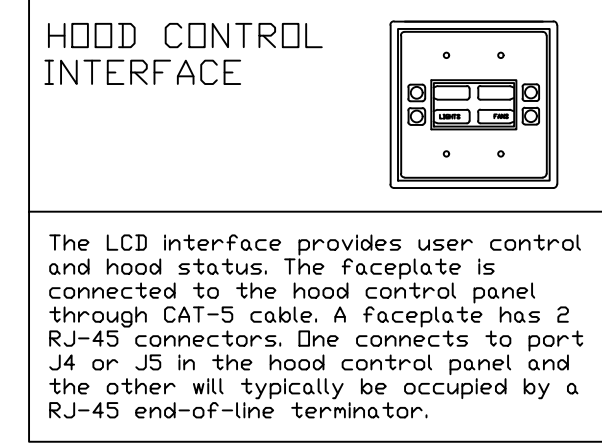
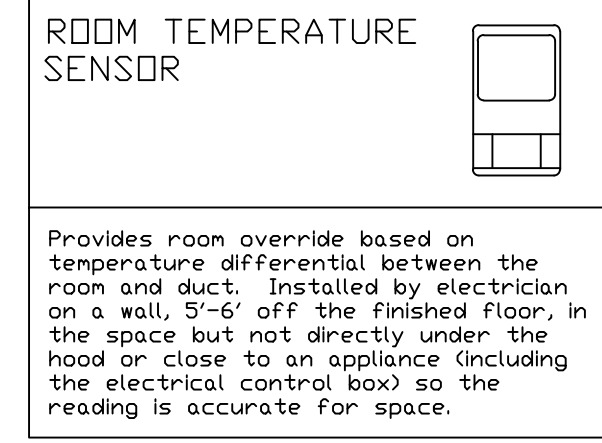
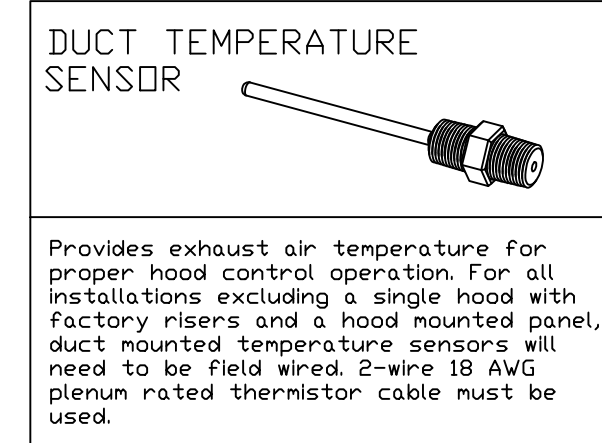
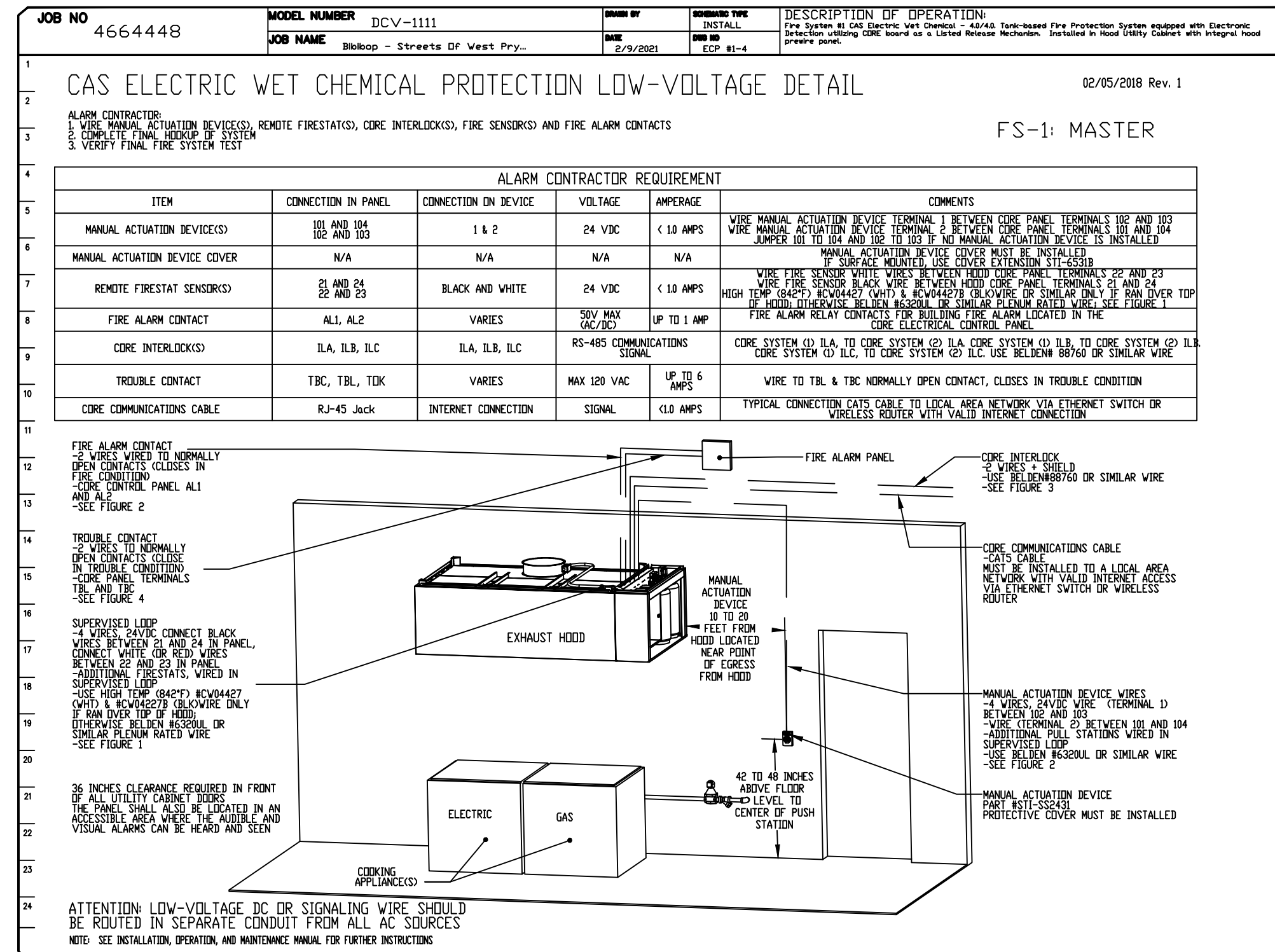
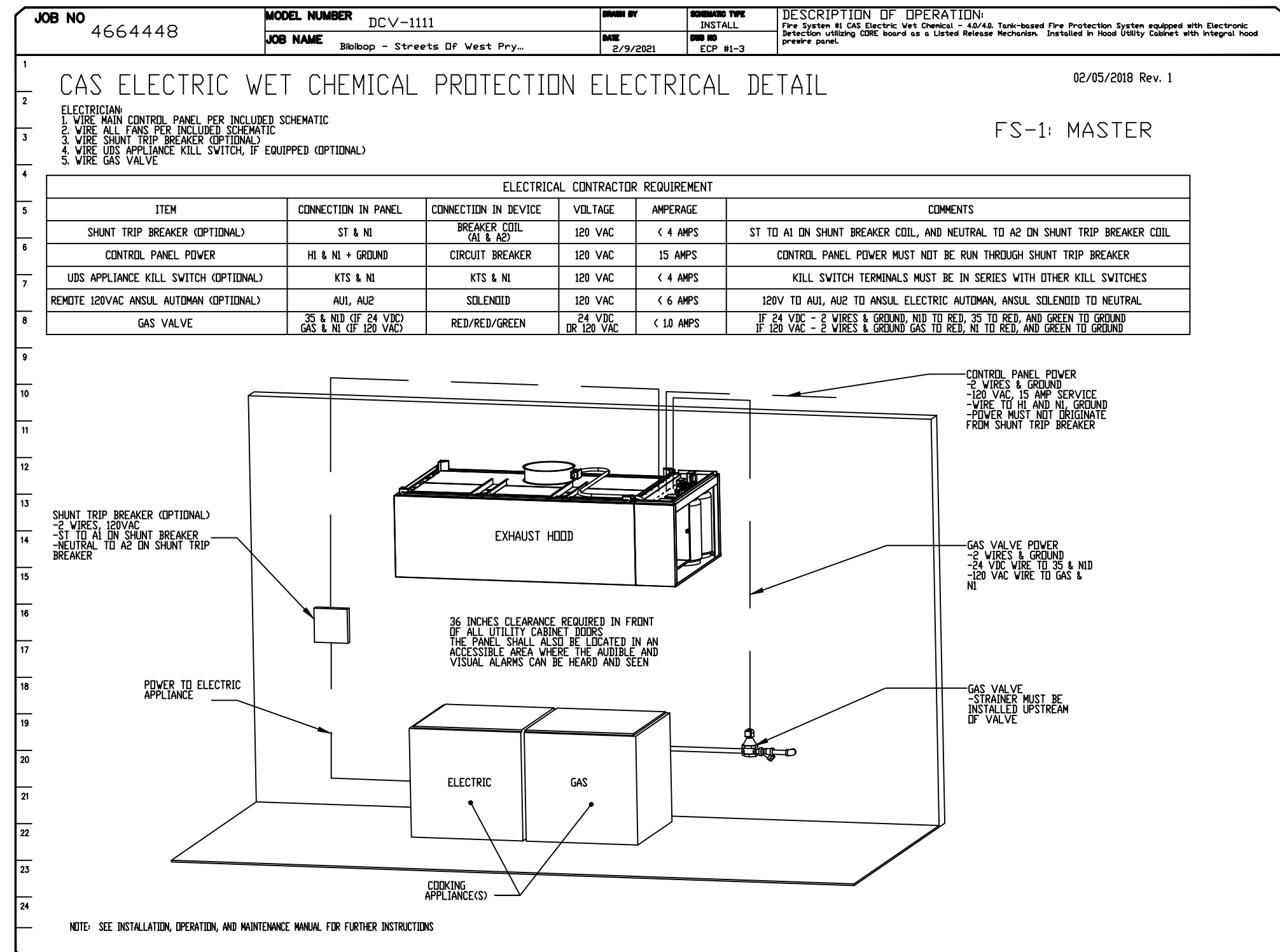
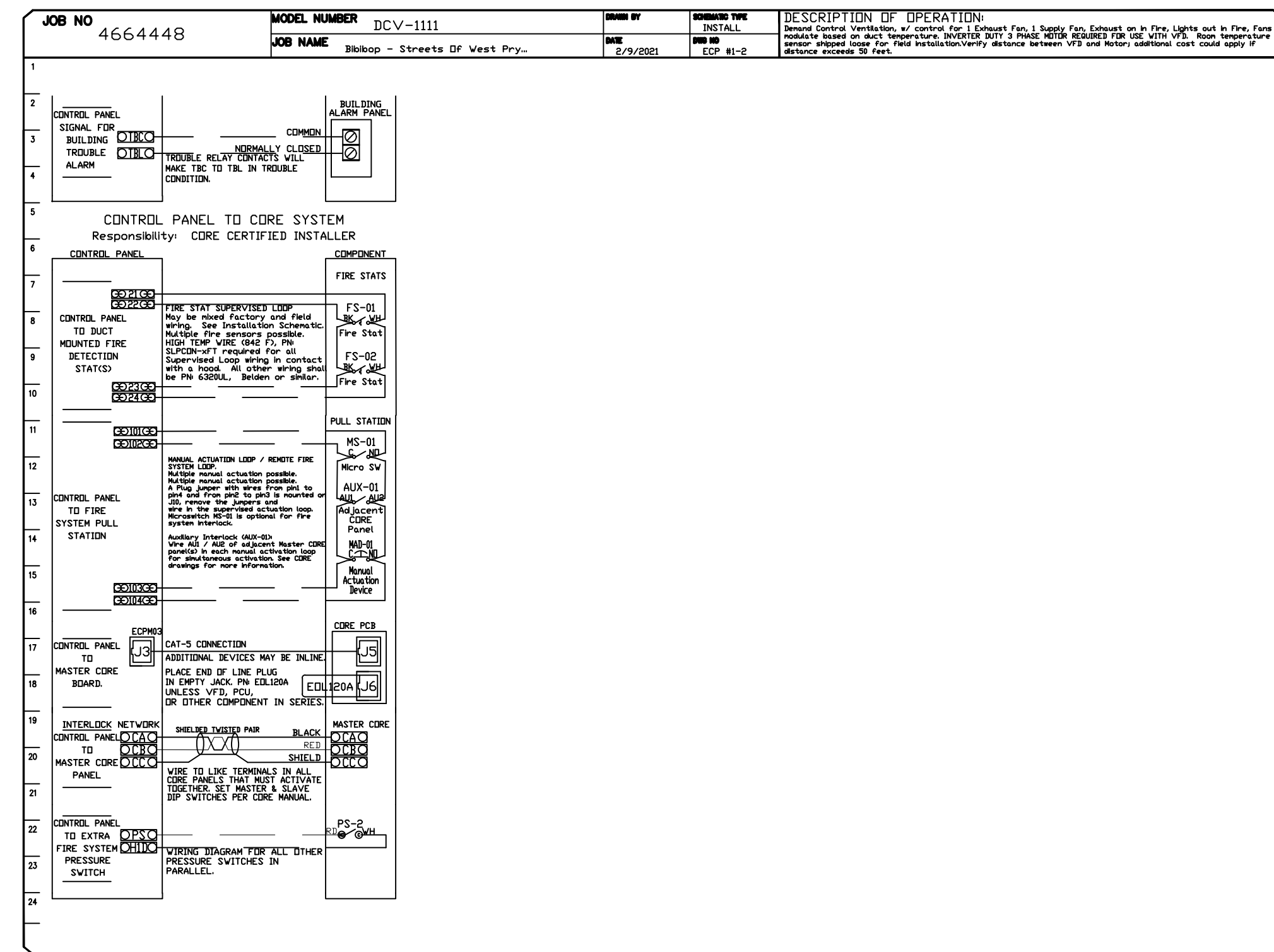
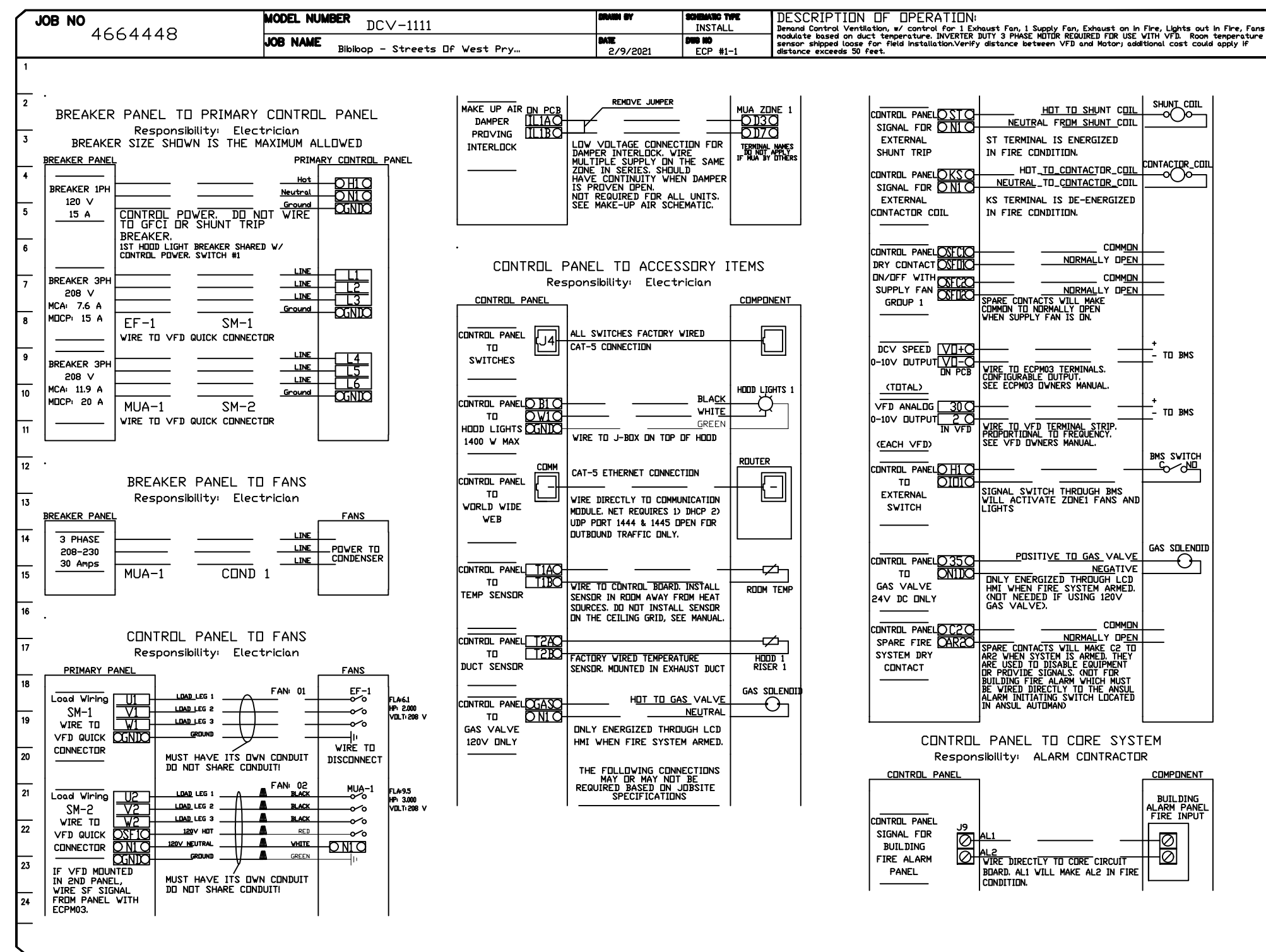


CASink Monitor and Control

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

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	DC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Aluminum RTV Discharge Temperature	MONITOR	Aluminum RTV Discharge Temperature	MONITOR
Fan Speed	MONITOR	Control Panel	MONITOR
Fan Amperage	MONITOR	Fan Amperage	MONITOR
Fan Power	MONITOR	Fan Power	MONITOR
VFD Faults	MONITOR	VFD Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fan Status	MONITOR
Fan Status	MONITOR	PCU Fire System	MONITOR
PCU Filter Clog Percentages	MONITOR	Building Pressure	MONITOR
PCU Faults	MONITOR	Fan Status(s)	MONITOR & CONTROL
Fan Status(s)	MONITOR	Light Status(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Push Button	MONITOR & CONTROL
Core Fire System	MONITOR		
Building Pressure	MONITOR		
Prep Time Status	MONITOR & CONTROL		
Fans Status	MONITOR & CONTROL		
Light Status	MONITOR & CONTROL		
Push Buttons	MONITOR & CONTROL		



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HOOD PLANS

H109

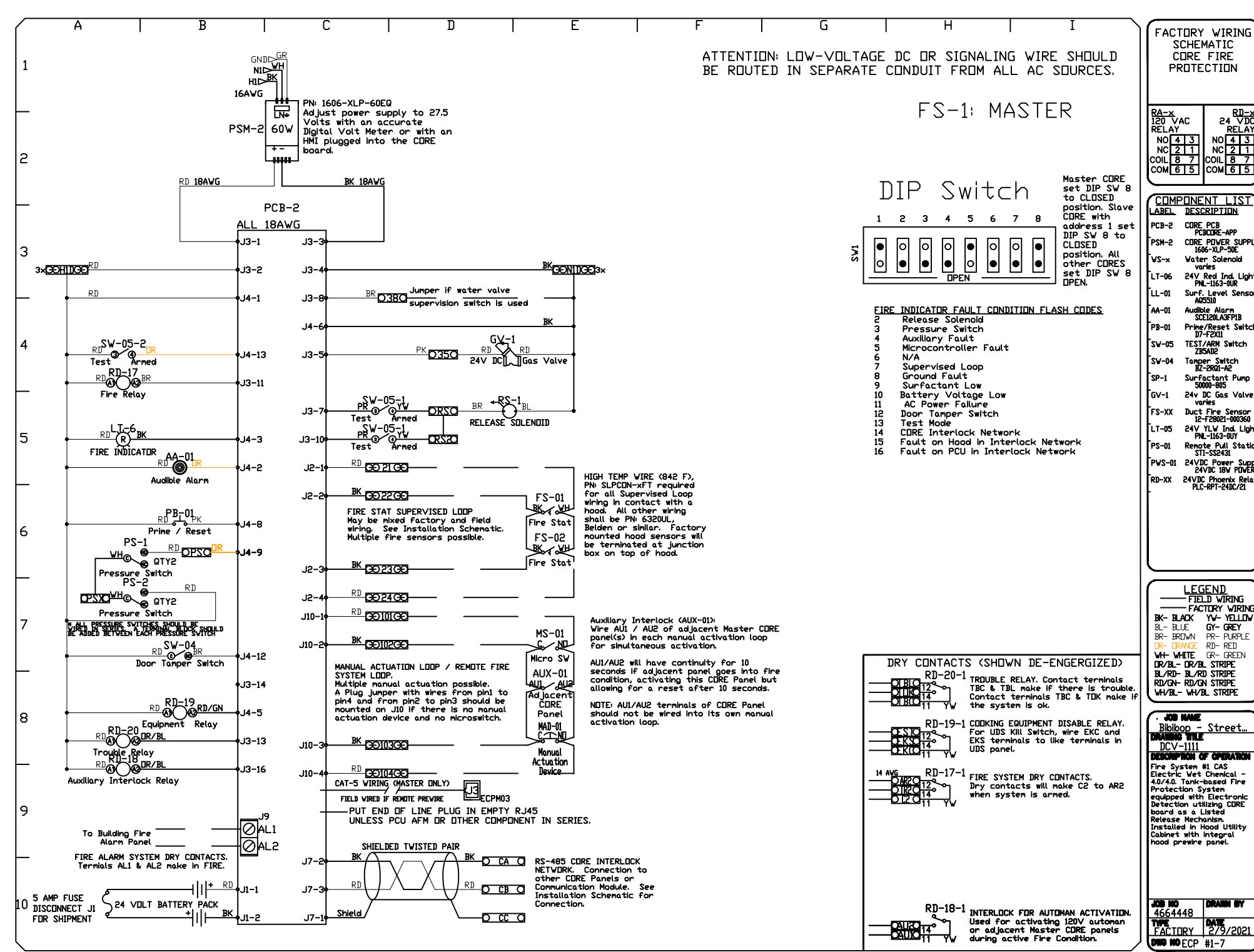
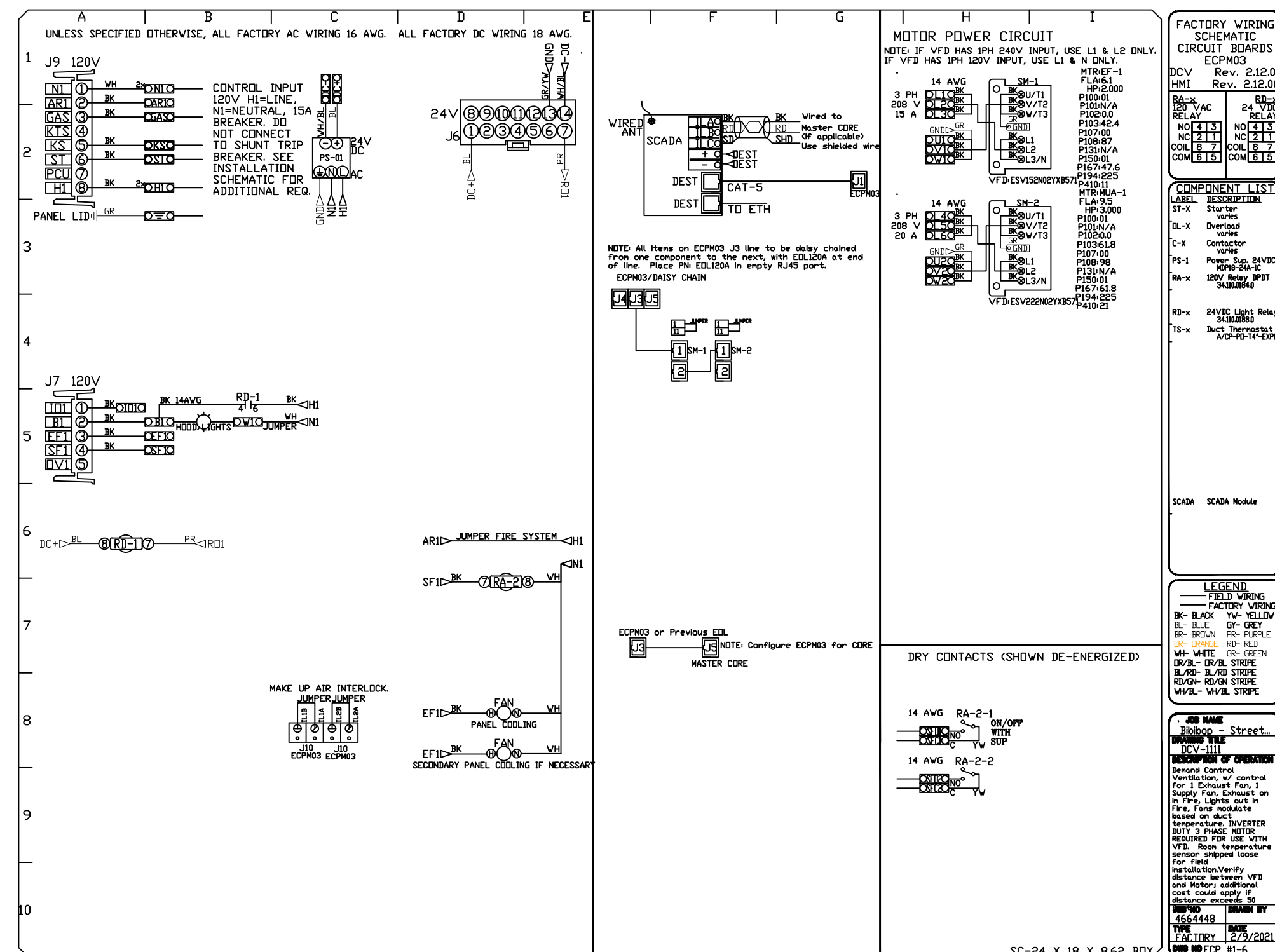
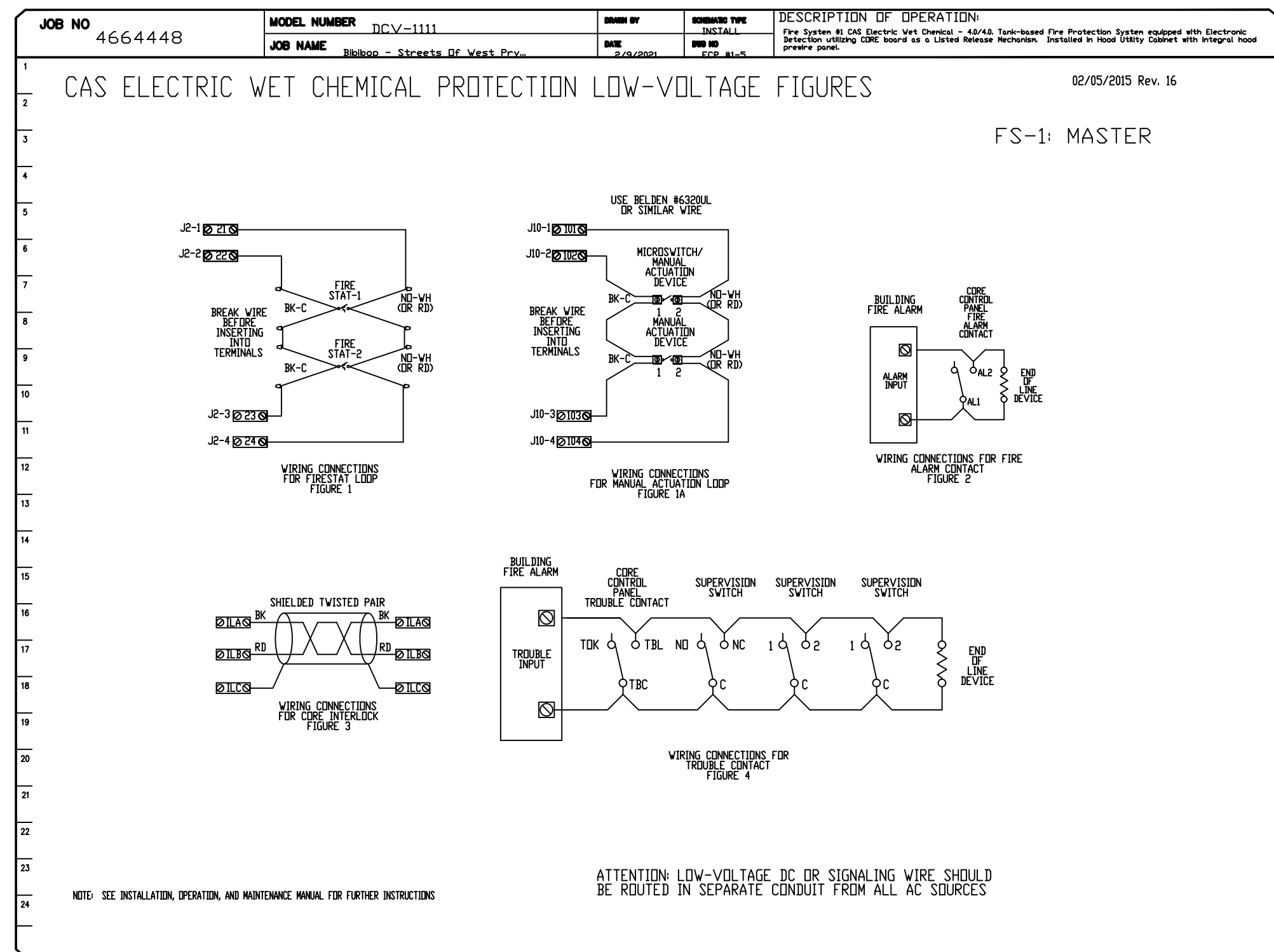
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Bibibop - Streets Of West Pryor

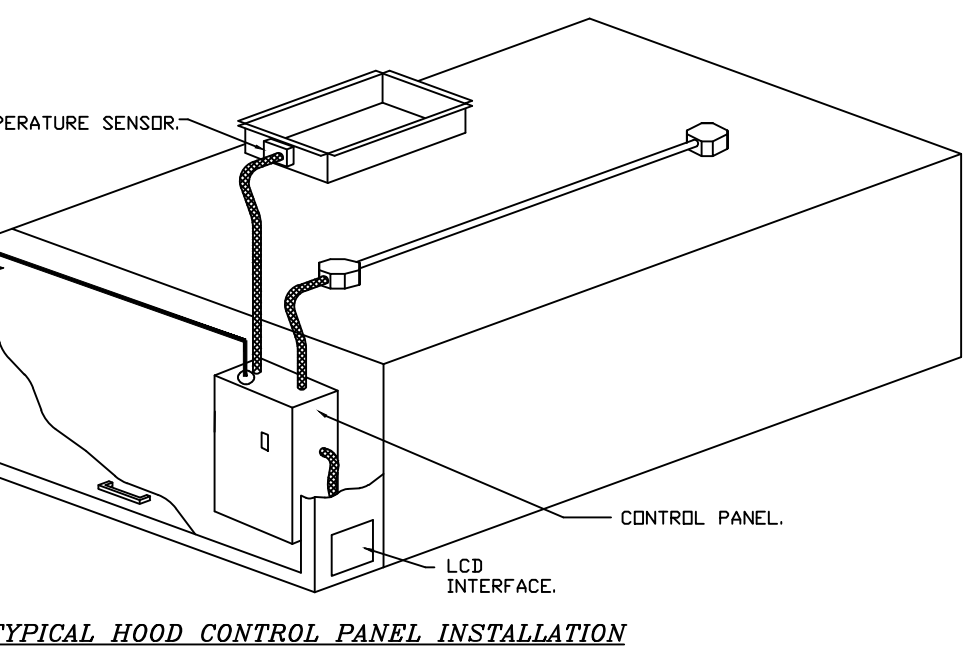
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SHEET NO. 9



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).
- CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- 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 DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE 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 (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- 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 MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FANS, ACTIVATE THE EXHAUST FANS, ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 G. AN ENERGY SAVINGS 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 GIVEN TIME:
 - **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
 - **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
 - **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
 - **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
 - **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

FOR REFERENCE ONLY

DUCTWORK #1 PARTS - JOB#4664448

TAG	PART #	CFM	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1690ASY	2300	-0.1418	13.00	1647.25	1	SINGLE WALL DUCT 90 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P2	DW1604CID	2300	-0.001	2.79	1647.25	1	SINGLE WALL DUCT OFF SET COLLAR - 16" DIAMETER DUCT - 1/4" PITCH.
P3	DW1647LT	2300	-0.0169	24.89	1647.25	1	SINGLE WALL DUCT 16" DIAMETER, 47" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P4	DW1648AJDKIT	2300	-0.0091	30.39	1647.25	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P5	DW16SUBRASY			3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P6	DW16SUBRASY			3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P7	DW1604CID	2300	-0.001	2.79	1647.25	1	SINGLE WALL DUCT OFF SET COLLAR - 16" DIAMETER DUCT - 1/4" PITCH.
P8	DW16TEASY	2300	-0.1134	19.23	1647.25	1	SINGLE WALL DUCT TEE, 16" DUCT, ASSEMBLY.
P9	DW1617ADIASY			16.57		1	DUCT ACCESS DOOR - INSULATED - USED WITH 16" DUCT - GREASE DAM INCLUDED - ASSEMBLY.
P10	DW161150LT	2300	-0.0039	6.14	1647.25	1	SINGLE WALL DUCT 16" DIAMETER, 11.50" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P11	DW1618AJDKIT	2300	-0.0031	13.19	1647.25	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 17.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P12	DW16VESU18			22.80		1	DUCT VERTICAL SUPPORT KIT, 16" DUCT, 18" CLEARANCE TO COMBUSTIBLES. PARTS ARE ZINC COATED. HARDWARE KIT #3 USED ON DWXXVESU18 & DWXXVESU18.
P13	DW1629LT	2300	-0.001	15.68	1647.25	1	SINGLE WALL DUCT 16" DIAMETER, 29" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P14	DW2616TP	2300		11.62	1647.25	1	DUCT TO CURB TRANSITION, 26-1/2" CURB TO 16" DUCT, 16 GA ALUMINIZED. USED ON BDUI8.
SYSTEM AT P14				-1.0697	0.00		
	3M-2000PLUS			0.80		3	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	834680600587XL			52.00		7	DUCT - DUCT INSULATION FOR ZERO CLEARANCE TO COMBUSTIBLES - 300" X 24" X 1-1/2" ROLL. PYROSCAT WRAP.
	BANDING5			5.00		2	DUCT - FIRE BARRIER WRAP STAINLESS STEEL BANDING .5" WIDTH - 200 FT PER ROLL.
	DW16CLASY			1.18		10	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
	SEAL-50-50			0.50		2	DUCT - FIRE BARRIER WRAP STAINLESS STEEL BANDING SEAL .5" WIDTH. QUANTITY OF 50.
	TAPEALUM			0.25		2	DUCT - FIRE BARRIER WRAP ALUMINUM FOIL TAPE - 3" X 150' ROLL.
TOTAL WEIGHT				575.15			

SINGLE WALL FACTORY BUILT DUCTWORK

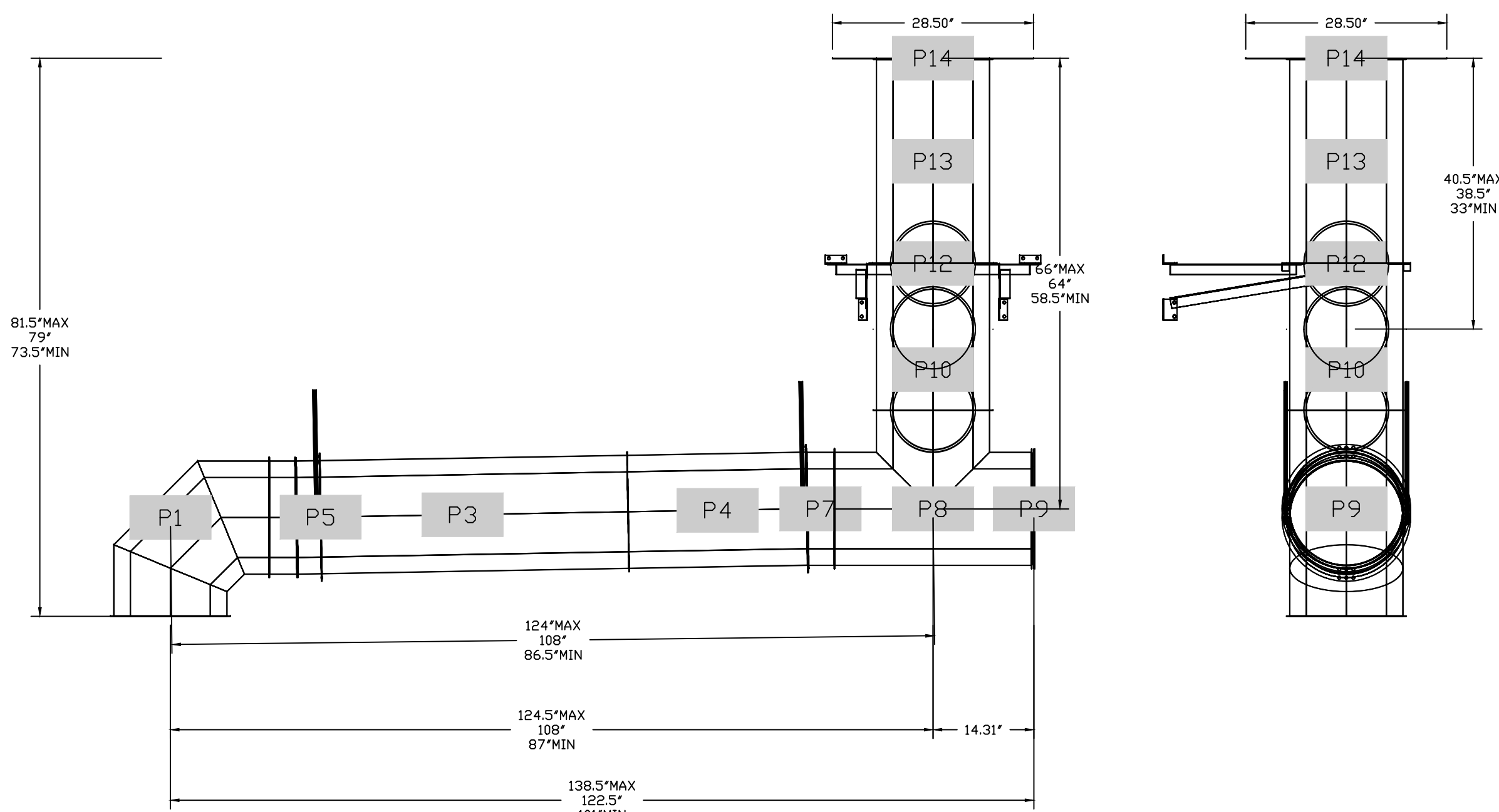
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
5"	10'	10'	24'
6"	10'	10'	24'
7"	10'	10'	24'
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'
26"	10'	10'	24'
28"	10'	10'	24'
30"	10'	10'	24'
32"	10'	10'	24'
34"	10'	10'	24'
36"	10'	10'	24'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

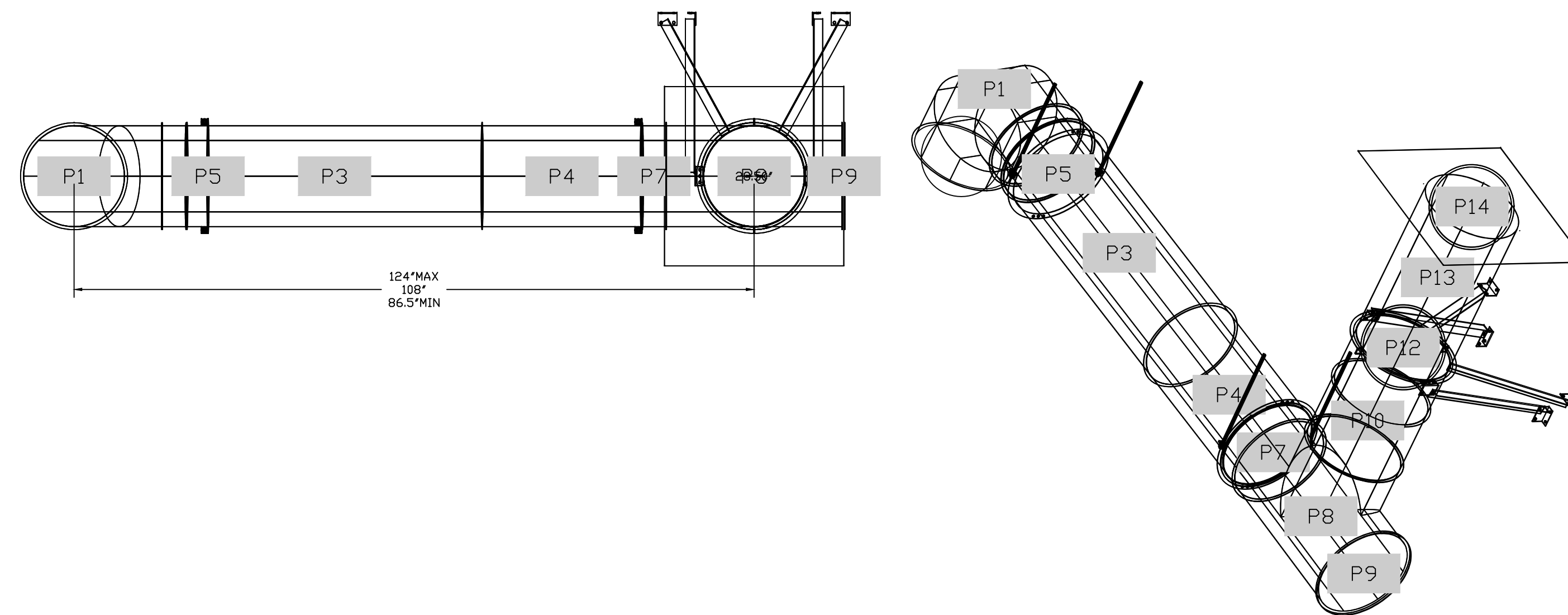
DUCTWORK #1 FRONT VIEW

DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW

DUCTWORK #1 SE VIEW



REVISIONS	
DESCRIPTION	DATE

CAPTIVEAIRE
Northern Ohio Office
806 Morrison Rd, Gahanna, OH 43230 PHONE: FAX: (619) 227-5925 EMAIL: reg52@captivaire.com www.captivaire.com

Bibibop - Streets Of West Pryor
2050 NW Lowenstein Dr,
Lee's Summit, MO, 64081

DATE: 2/9/2021
DWG.#: 4664448
DRAWN BY: MAP-52
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 10

CONSULTANT:

SEAL/SIGNATURE:

INCLUDED FOR REFERENCE ONLY - INFORMATION HAS BEEN USED TO DESIGN DUCTWORK SERVING EQUIPMENT FURNISHED BY CAPTIVEAIRE

PROJECT:



BIBIBOP
asian grill
STREETS OF WEST PRYOR

2050 NW LOWENSTEIN DR.
SUITE E
LEE'S SUMMIT, MO 64081

BIBIBOP STORE NO.: B0057
BIBIBOP P.O.: TBD

PROJECT NO.: 0421995-101

DRAWN BY:

CHECKED BY:

ISSUES AND REVISIONS:

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REVISION 1 02.10.2021

SHEET TITLE:

HOOD PLANS

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DUCTWORK #2 PARTS - JOB#4664448

TAG	PART #	CFM	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1229LT	950	-0.0074	11.69	1209.58	1	SINGLE WALL DUCT 12" DIAMETER, 29' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P2	DW1248AJDKIT	950	-0.0056	22.74	1209.58	1	SINGLE WALL DUCT ADJUSTABLE, 12" DIAMETER, 47.5' LONG, FLANGE AT ONE END WITH A 12" ADJUSTABLE COLLAR - STAINLESS STEEL.
P3	DW12VESU18			19.78		1	DUCT VERTICAL SUPPORT KIT, 12" DUCT, 18" CLEARANCE TO COMBUSTIBLES. PARTS ARE ZINC COATED. HARDWARE KIT #3 USED ON DWXXVESU & DWXXVESU18.
P4	DW1229LT	950	-0.007	11.69	1209.58	1	SINGLE WALL DUCT 12" DIAMETER, 29' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P5	DW1912TP	950		6.27	1209.58	1	DUCT TO CURB TRANSITION, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. USED ON BDUI1, DU25, 30 & 33.
	3M-2000PLUS			0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12CLASY		-0.126	0.94		3	DUCT 'V' CLAMP WITH NEW DESIGN 14 GA BRACKETS, 12" DUCT, ASSEMBLY.
TOTAL WEIGHT				75.79			

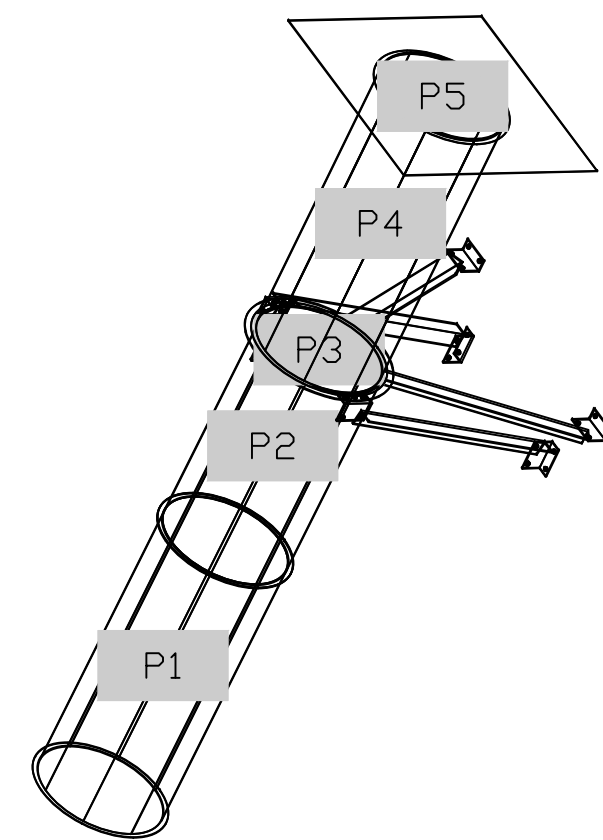
SINGLE WALL FACTORY BUILT DUCTWORK

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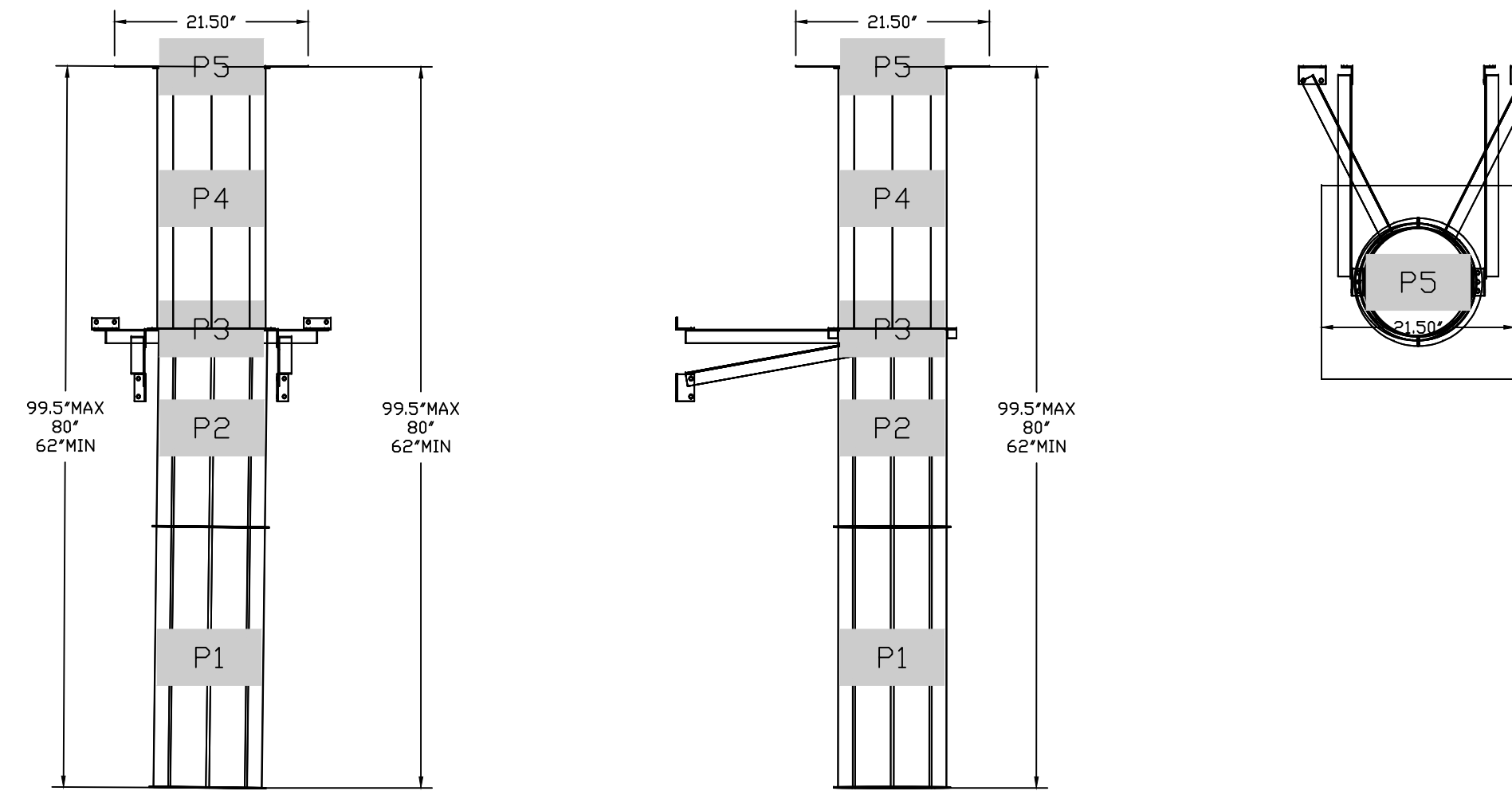
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DUCTWORK #2 SE VIEW

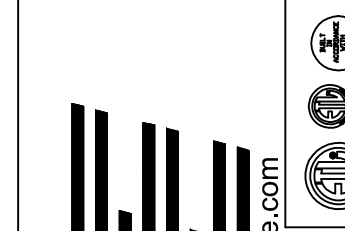


DUCTWORK #2 FRONT VIEW DUCTWORK #2 SIDE VIEW DUCTWORK #2 TOP VIEW



REVISIONS

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CAPTIVEAIRE
Northern Ohio Office
806 Morrison Rd. Gahanna, OH, 43230 PHONE: (614) 227-5925 EMAIL: reg52@captiveaire.com

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MASTER DRAWING

SHEET NO. 11

finn daniels
ARCHITECTS

2145 Ford Parkway, Suite 301
Saint Paul, Minnesota 55116
651.690.5525
www.finn-daniels.com

CONSULTANT:

SEAL/SIGNATURE:

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