GENERAL NOTES:

ADDITIONAL COST TO THE OWNER.

- 1. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND
- 2. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
- REFER TO GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF PROJECT INCLUDING THE EQUIPMENT AND INSTALLATION OF THE MECHANICAL WORK.
 CONTRACTOR SHALL BECOME, PRIOR TO BID, THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
- 5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES), THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
- 6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT
- 7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING,
- 8. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED
- 9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE
- DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.

 10. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN
- 11. EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.

THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH

12. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.

AND INSTALL THE ITEM.

- 13. COORDINATE PLACEMENT OF ALL THERMOSTATS, ROOF MOUNTED EQUIPMENT, ETC. WITH ARCHITECTURAL AND STRUCTURAL TRADES.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID.
- 15. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. DO NOT SUBMIT SHOP DRAWINGS FOR ANY EQUIPMENT WHICH MAY BE COORDINATED WITH OWNER FURNISHED ITEMS UNTIL THE APPROVED DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. VERIFY THE APPROVED EQUIPMENT HAS THE SAME ROUGH-IN AND FINAL CONNECTION REQUIREMENTS AND DESIGN CRITERIA AS THE DOCUMENTS. NOTIFY ENGINEER OF ANY CHANGES, INCOMPATIBILITY, OR UNUSUAL CONDITIONS IMMEDIATELY. SEE SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
- 16. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THOROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- 17. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
- 18. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS.
- 19. SPECIAL CARE SHALL BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF EXISTING ROOF.
- 20. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE

CONTROL NOTES:

- REFER TO GENERAL NOTES ON DRAWING.
- ALL CONTROL DEVICES SHALL BE BY ONE MANUFACTURER. ALL CONTROL SET POINTS SHALL BE ADJUSTABLE. THERMOSTATS AND WIRING FOR FANS SHALL BE INCLUDED WITH CONTROLS.
- 2. THE CONTROL SYSTEM SHALL BE SUITABLE FOR THE LOCATIONS SHOWN ON THE
- 3. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE LOCKABLE COVERS AND GUARDS FOR ALL THERMOSTATS AND SENSORS.
 ALL THERMOSTATS, SENSORS, AND OTHER EXPOSED CONTROL DEVICE LOCATIONS
- SHALL BE COORDINATED WITH THE ENGINEER AND ARCHITECT BEFORE ROUGHING IN.

 6. ALL CONTROLS SHALL BE TESTED AND CALIBRATED BEFORE TESTING AND BALANCING
- IS PERFORMED.PROVIDE LAMINATED TAGS AT ALL CONTROL DEVICES INDICATING EQUIPMENT BEING
- 8. INTERLOCK CONTROLS WITH THE ELECTRICAL FIRE AND SMOKE ALARM SYSTEM
- COORDINATE WITH THE ELECTRICAL SYSTEMS CONTRACTOR FOR INTERFACE REQUIREMENTS OF THE SYSTEMS.
- PROVIDE AUXILIARY CONTACTORS AS REQUIRED FOR OPERATIONS OF CONTROLSEQUENCES.
- 10. ALL WIRING SHALL BE IN CONDUIT WHERE ROUTED IN WALLS AND INSIDE MECHANICAL AND ELECTRICAL ROOMS. REFER TO THE SPECIFICATIONS.
 11. EF-2 TO BE CONTROLLED BY TIMER IN STORAGE 111. TIMER TO BE PELTEC 600 SERIES I OW-VOLTAGE TIMER WITH RIB BELAY
- LOW-VOLTAGE TIMER WITH RIB RELAY.

 12. CONTROL DEVICES AND CONTROL SEQUENCES BY CAPITVEAIRE.

HVAC NOTES:

- REFER TO GENERAL NOTES ON DRAWING FOR ADDITIONAL REQUIREMENTS.
- 2. ALL ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH STANDARD MANUFACTURER'S FABRICATED CURBS WHICH FACILITATE LEVEL MOUNTING OF THE EQUIPMENT (I.E. FACTORY FABRICATED TO COMPENSATE FOR ROOF SLOPE). OBTAIN ROOF SLOPES AND DIRECTION-OF-SLOPE FROM ARCHITECTURAL AND/OR STRUCTURAL PLANS. ALL ROOF CURBS SHALL BE A MINIMUM OF 8" HIGH. SHIMMING OF CURBS IS NOT ACCEPTABLE. UNLESS OTHERWISE SHOWN, ALL SERVICES TO AND FROM ROOF MOUNTED EQUIPMENT SHALL BE INSIDE PERIMETER OF CURB. ALL EQUIPMENT SHALL BE SET PLUMB AND LEVEL.

1. SEE STRUCTURAL PLANS FOR EXACT DIMENSIONS AND DETAILS OF THE BUILDING.

- 3. MAINTAIN MINIMUM CLEAR DISTANCE OF 5'0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT (FANS, RTU'S, CONDENSERS, ETC.). MAINTAIN A CLEAR DISTANCE OF 10'0" MINIMUM BETWEEN PARAPET WALL AND FLUES FROM GAS BURNING EQUIPMENT.
- 4. MAINTAIN A MINIMUM OF 10'0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, FLUES, ETC. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.
- 5. SEAL ALL ROOF AND WALL PENETRATIONS. FLASH AND COUNTERFLASH ROOF PENETRATIONS. MINIMUM HEIGHT OF FLASHING IS EIGHT (8) INCHES ABOVE ROOF.
- ALL HVAC WORK TO BE PER SMACNA AND ALL APPLICABLE CODES.
 ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF JOISTS EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY
- OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE.

 8. PROVIDE TURNING VANES AT ALL ELBOWS GREATER THAN 45DEGREES. TURNING
- VANES SHALL BE DOUBLE THICKNESS.

 9. MAXIMUM 4'0" FLEX DUCT ON ALL DIFFUSER RUNOUTS. CONNECTIONS TO FLEX DUCT
- SHALL BE SMOOTH ON AIRFLOW SIDE.

 10. PROVIDE INDICATED BRANCH TAKEOFF AND DAMPER AT EACH CONNECTION OF ROUND
- BRANCH DUCTS TO A RECTANGULAR DUCT.

 11 PROVIDE ELEVIRLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OLITLET
- 11. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL ROOF TOP UNITS, EXHAUST FANS, AIR BOXES, ETC. WHERE EQUIPMENT HAS ROTATING PARTS (MOTORS, ETC.).
- 12. SEE ARCH REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DEVICES.
- 13. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN AIR DUCTS. ALL BRANCH DUCTS TO BE EXTERNALLY INSULATED WITH FIBERGLASS DUCT INSULATION WRAP.
- 14. THE DUCT SIZES ON THE DRAWINGS SHALL BE INCREASED IN SIZE TO ACCOMMODATE LINER THICKNESS. SIZES SHOWN ON THE DRAWINGS ARE THE REQUIRED CLEAR INSIDE DIMENSIONS OF THE LINER WHERE USED.
- 15. PRIOR TO WEATHER-PROOFING EXTERIOR DUCTWORK, APPLY HARD CAST SEALER AT ALL DUCT JOINTS AND SEAMS. INSULATE WITH FIBERGLASS HIGH DENSITY RIGID BOARD INSULATION, 3" THICK, EQUAL TO OWENS CORNING TYPE 705. WEATHER-PROOF EXTERIOR DUCTWORK BY COVERING ALL JOINTS, SEAMS AND HOLES WITH TWO 1/8" THICK WET COATS OF VAPOR BARRIER MASTIC REINFORCED WITH GLASS FABRIC OVER ENTIRE SURFACE. APPLY TWO 1/8" THICK COATS OF BREATHER MASTIC REINFORCED WITH GLASS FABRIC LAPPING ALL JOINTS A MINIMUM OF 2". INSTALL ALUMINUM JACKETING OVER MASTIC.
- 16. INSTALL SCHEDULED FILTERS AT THE COMPLETION OF CONSTRUCTION. USE ONE SET OF SCHEDULED FILTERS DURING CONSTRUCTION AS INDICATED ON THE SCHEDULE. INSTALL FINAL SET PRIOR TO TEST AND BALANCE.
- 17. BALANCE AIR SYSTEM TO PROVIDE INDICATED AIRFLOWS. SEE SPECIFICATIONS FOR OTHER TEST AND BALANCE REQUIREMENTS. SUBMIT FINAL BALANCE OF AIR SYSTEMS (FLOW AND TEMPERATURE) FOR REVIEW.
- 18. MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
- A) ALL STARTERS: FURNISHED BY MC, INSTALLED BY EC.
 B) DUCT SMOKE DETECTORS: FURNISHED BY MC, INSTALLED BY EC.
 C) ELECTRIC DAMPER ACTUATORS: FURNISHED BY MC, INSTALLED BY MC.
- D) DISCONNECTS:

 WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.

 WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY
- 19. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH ARCHITECT AND ENGINEER. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
- 20. INSTALL SMOKE DETECTOR IN RETURN DUCT OF ALL INDICATED AIR HANDLERS.
- 21. PROVIDE HVAC CONDENSATE DRAIN. INSTALL WITH TRAP AND AIR VENT PER CODE AND IS INDICATED AND FULL SIZE OF DRAIN PAN CONNECTION.

KITCHEN HOOD NOTES:

- 1. EXHAUST DUCT CONSTRUCTION AND INSTALLATION SHALL COMPLY WITH NFPA 96.
- 2. HOOD SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA 96 AND INSTALLATION SHALL BE AS COORDINATED WITH HOOD MANUFACTURER.
- 3. DUCT ROUTING SHALL BE AS INDICATED AND AS DIRECT AS POSSIBLE.
- 4. EXHAUST DUCT SHALL BE NOT LESS THAN 16 GAUGE CARBON STEEL. ALL SEAMS AND JOINTS ARE TO HAVE A LIQUID TIGHT WELD. DUCT SHALL NOT BE RUN FLAT TO PREVENT COLLECTION OF GREASE RESIDUE. SLOPE DUCT A MINIMUM OF 1/4" PER FOOT TOWARD THE HOOD.
- 5. EXHAUST DUCT SHALL HAVE ONE LAYER OF 3M FIRE BARRIER DUCT WRAP 15A, OR EQUAL, TO PROVIDE 2-HOUR FIRE RESISTIVE RATING AND ZERO-CLEARANCE FROM COMBUSTIBLES.

6. THE EXHAUST DUCT SHALL HAVE A FIRE RATED ACCESS DOOR FOR CLEANING DUCT AT

- ALL CHANGES IN DIRECTION. ACCESS SHALL BE AT SIDES OF DUCT AND COMPLY WITH NFPA 96.
- 7. A SIGNAL FROM FIRE EXTINGUISHING SYSTEM SHALL STOP THE MAKEUP AIR UNIT FAN AND EXHAUST FAN.
- 8. INSTALLATION SHALL ALLOW FOR EXHAUST DUCT EXPANSION WITHOUT LOSS OF SYSTEM INTEGRITY DURING A FIRE.

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION
AD	AUD DOOD				
AD AH	AIR DOOR AIR HANDLING UNIT		NEW EQUIPMENT	CD	CONDENSATE DRAIN
A.F.F.	ABOVE FINISHED FLOOR			HWR——	HOT WATER RETURN
AV	ATTIC VENT			HWS-	HOT WATER SUPPLY
B BHP	BOILER BRAKE HORSE POWER	CS	CEILING SUPPLY	RS/RL——	REFRIGERANT SUCTION / LIQUID
BTUH	BRITISH THERMAL UNIT PER HOUR	DG	DOOR GRILLE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MAKE-UP WATER
CFM	CUBIC FEET PER MINUTE CHILLER	CE LSD	CEILING EXHAUST LINEAR SLOT DIFFUSER	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BALL VALVE
CH CV	CONSTANT VOLUME	CR	CEILING RETURN		BUTTERFLY VALVE
CVB	CONSTANT VOLUME TERMINAL	TR SWE	TRANSFER GRILLE SIDE WALL EXHAUST		BUTTERFLY VALVE
DB DP	DRY BULB TEMPERATURE DIFFERENTIAL PRESSURE	SWS	SIDE WALL SUPPLY	+	CHECK VALVE
EA	EXHAUST AIR	SWR	SIDE WALL RETURN		GATE VALVE
EAT	ENTERING AIR TEMPERATURE OF THE COIL				
EF ERU	EXHAUST FAN ENERGY RECOVERY UNIT	CS-1 → MARK			GLOBE VALVE
ESP	EXTERNAL STATIC PRESSURE	150 AIR FLOW (CFM)	AIR DEVICE DESIGNATION	1	NEEDLE VALVE
EUH EWT	ELECTRIC UNIT HEATER	(O1 III)			
FAS	ENTERING WATER TEMPERATURE FACILITY AUTOMATION SYSTEM		CEILING SUPPLY DIFFUSER	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PLUG VALVE
FCU	FAN COIL UNIT				PRESSURE REGULATING VALVE
FO FPMB	FLAT OVAL FAN POWERED MIXING TERMINAL		OF ILINO DETUDNI ODILLE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	RELIEF VALVE
FPM	FEET PER MINUTE (VELOCITY)		CEILING RETURN GRILLE	[S]	NELIEF VALVE
GH	GRAVITY HOOD				SOLENOID VALVE
GPM GUH	GALLONS PER MINUTE GAS UNIT HEATER		CEILING EXHAUST GRILLE	, , , , , , , , , , , , , , , , , , ,	VALVE IN RISER
HP	HORSEPOWER			+C+	
KW	KILOWATT		LINEAR SLOT DIFFUSER		PIPE UNION
L LAT	LOUVER LEAVING AIR TEMPERATURE OF THE COIL		LINEAR SLOT DIFFUSER		AUTO AIR VENT
LBS	POUNDS				
LWT	LEAVING WATER TEMPERATURE		GRILLE OR REGISTER ON BOTTOM OF DUCTWORK	\ \frac{\frac}}}}}}{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}}{\frac{\frac{\frac{\frig}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fi	MANUAL AIR VENT
MAU MAX.	MAKE-UP AIR UNIT MAXIMUM				ECCENTRIC TRANSITION
MBH	1000 BTUH				CONSENTENCE TEAMORTICAL
MCA	MINIMUM CIRCUIT AMPACITY		SIDEWALL SUPPLY/RETURN	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CONCENTRIC TRANSITION
MIN. MHP	MINIMUM MOTOR HORSE POWER	18/24	DUCT SIZE (FOR DOUBLE LINE DUCT)		PRESSURE GAUGE
MOCP	MAXIMUM OVER CURRENT PROTECTION	10/21	BOOT GIZE (FOR BOODLE ENVE BOOT)		STEAM TRAP
N/A NC	NOT APPLICABLE NOISE CRITERIA		SUPPLY DUCT UP		STEAM THAI
N.C.	NORMALLY CLOSED			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	STRAINER (Y-TYPE)
NIC	NOT IN CONTRACT		SUPPLY DUCT DOWN	T	TEMPERATURE & PRESSURE PLUG
N.O. NK.	NORMALLY OPEN NECK				
NTS	NOT TO SCALE		RETURN OR EXHAUST DUCT UP	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	THERMOMETER
OBD	OPPOSED BLADE DAMPER				DIRECTION OF FLOW
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED		RETURN OR EXHAUST DUCT DOWN		
OSA	OUTSIDE AIR		RECTANGULAR/ROUND TRANSITION	—>	DIRECTION OF FLOW
P PBD	PUMP PARALLEL BLADE DAMPER		(DOUBLE LINE DUCT)		FLEXIBLE PIPE CONNECTION
PDU	POOL DEHUMIDIFIER UNIT		FLEXIBLE DUCT CONNECTION		FLEXIBLE PIPE CONNECTION
PRV	PRESSURE REDUCING VALVE	F ₍₁₎ S ₍₃₎			
PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH		(1) FIRE DAMPER, (2) COMBINATION FIRE/SMOKE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FLEXIBLE PIPE CONNECTION
PSIG	POUNDS PER SQUARE INCH GAUGE	C (2)	DAMPER, (3) SMOKE DAMPER	C+ \	PIPE DOWN
RA RC	RETURN AIR REMOTE CONDENSER	(2)			TEE DOWN
RF	RELIEF FAN		(1) OPPOSED BLADE DAMPER,	+::+	TEE BOWN
RH	RELATIVE HUMIDITY	PSD	(2) PARALLEL BLADE DAMPER, (3) SMOKE DETECTOR	C+	PIPE UP
RHP RPM	RADIANT HEATING PANEL REVOLUTION PER MINUTE	(2) (3)		10+0+	TEE UP
RTH	RADIANT TUBE HEATER	T	THERMOSTAT OR SENSOR		
RTU	ROOF TOP (AIR CONDITIONING) UNIT	C	CO SENSOR	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BRANCH - BOTTOM OF PIPE
SA SC	SUPPLY AIR SENSIBLE CAPACITY	2	KEYED NOTE	\	BRANCH - TOP OF PIPE
SP	STATIC PRESSURE	/ •		I I	ELBOW
SPEC. TC	SPECIFICATION TOTAL CAPACITY				LLDON
TSP	TOTAL CAPACITY TOTAL STATIC PRESSURE			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	TEE
T'STAT	THERMOSTAT				45° ELBOW
TYP. UH	TYPICAL UNIT HEATER				
VAV	VARIABLE AIR VOLUME			_	CAP
VAVB	VARIABLE AIR VOLUME TERMINAL			<u> </u>	END OF LINE CLEANOUT
VSD WB	VARIABLE SPEED (FREQUENCY) DRIVE WET BULB TEMPERATURE				
WG	WATER GAUGE				
	FEET				
" Ø	INCHES ROUND DUCT				
2	TICOND BOOT				
DETAIL/SECTION	NUMBER				
X	DETAIL/SECTION DESIGNATION				
X					
SHEET NUMBER					

HVAC LEGEND

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

MECHANICAL DRAWING INDEX MECHANICAL NOTES, LEGEND, & INDEX **HVAC FLOOR PLANS HVAC ROOF PLAN** MECHANICAL DETAILS MECHANICAL SCHEDULES CAPTIVEAIRE SYSTEM DETAILS CAPTIVEAIRE SYSTEM DETAILS M402 CAPTIVEAIRE SYSTEM DETAILS CAPTIVEAIRE SYSTEM DETAILS M404 CAPTIVEAIRE SYSTEM DETAILS CAPTIVEAIRE SYSTEM DETAILS M406 CAPTIVEAIRE SYSTEM DETAILS CAPTIVEAIRE SYSTEM DETAILS

CAPTIVEAIRE SYSTEM DETAILS

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BID DOCUMENTS

ENGLISH PUB
Little Rock, Arkansas

Issue Date: 01.31.25

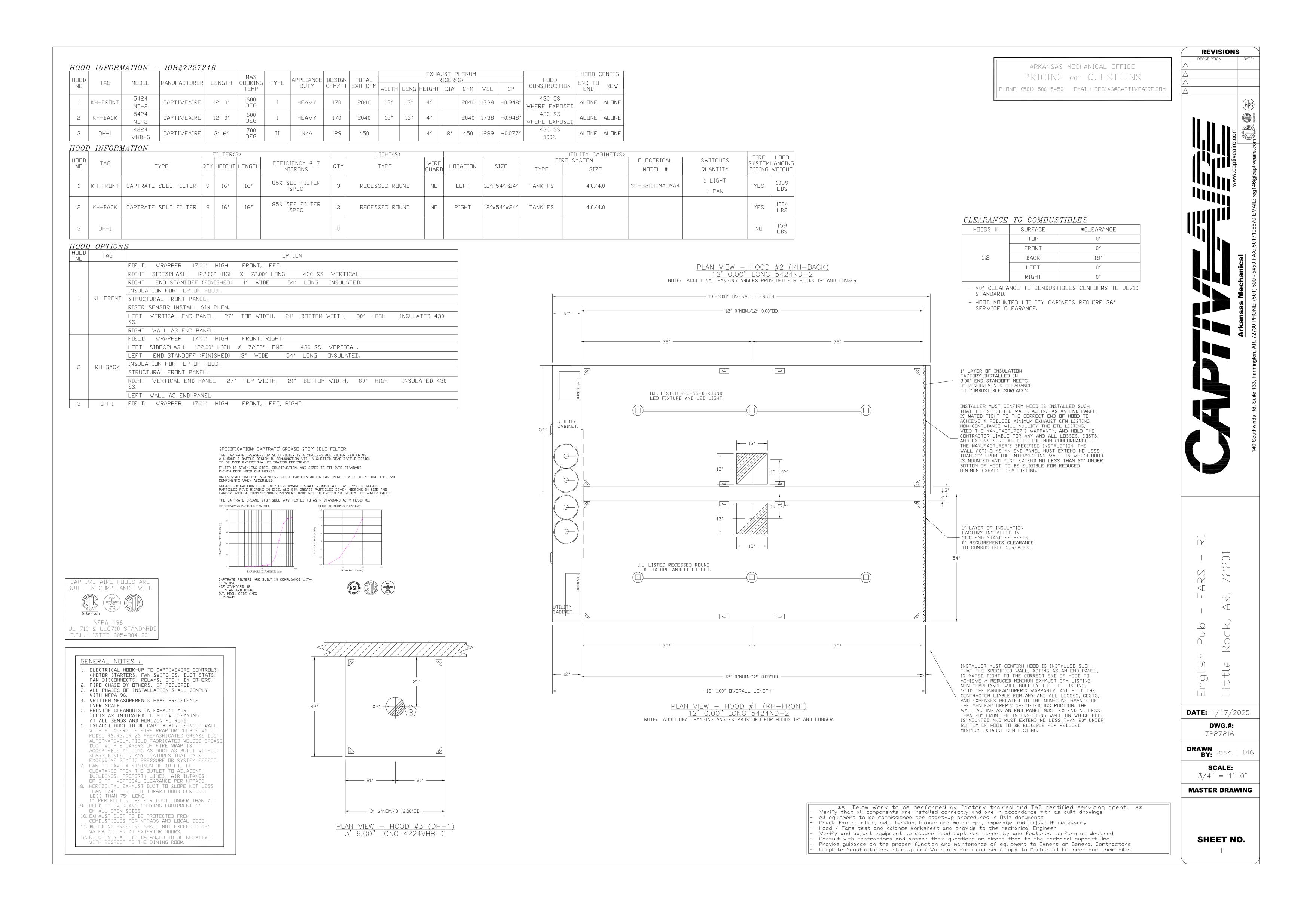
 REVISIONS

 NUMBER
 DATE
 DESCRIPTION

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 02.25.25
 Addendum 1

 3
 04.03.25
 Addendum 3

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MECHANICAL
NOTES, LEGEND,
& INDEX



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CAPTIVEAIRE
SYSTEM DETAILS

M401

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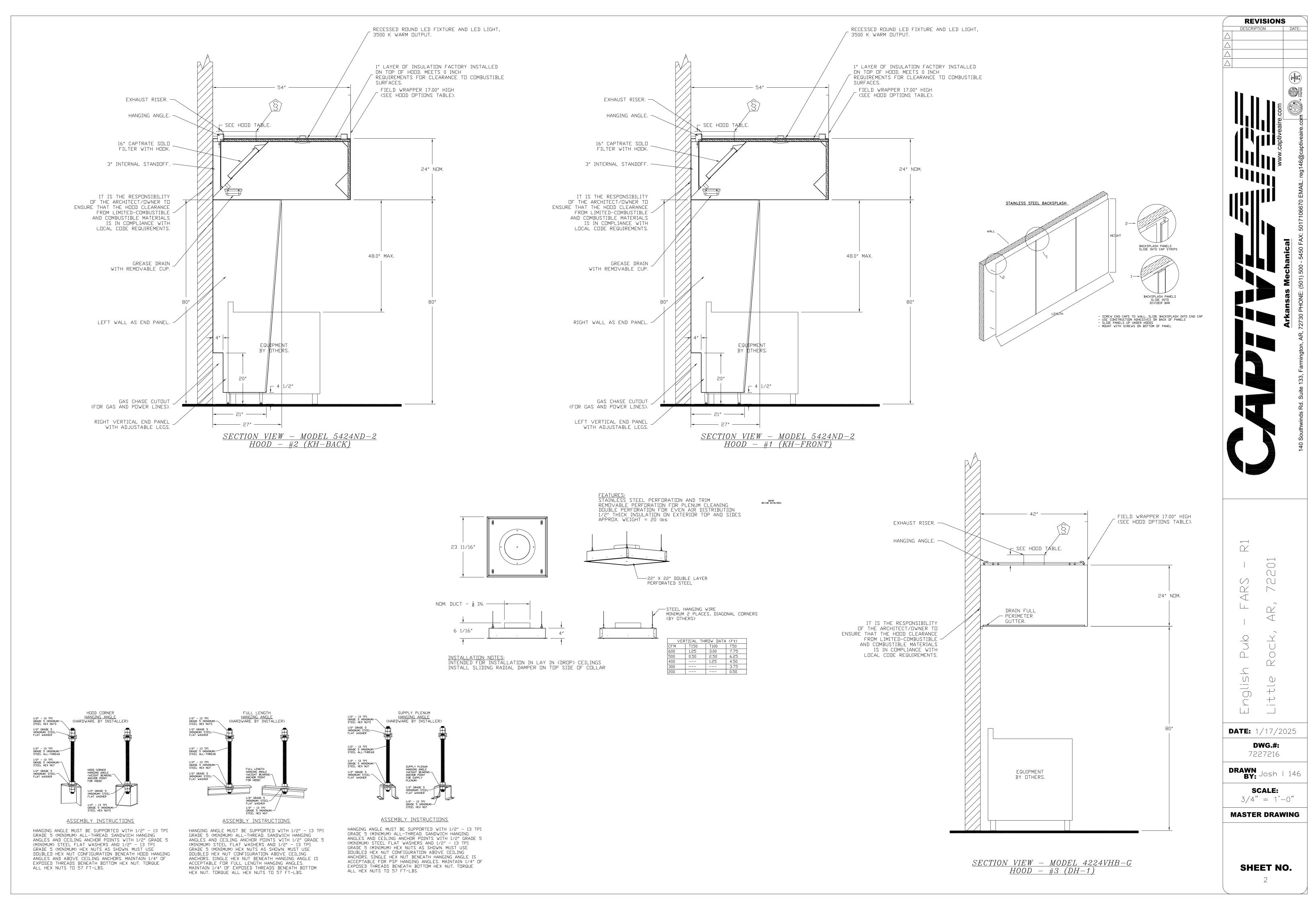
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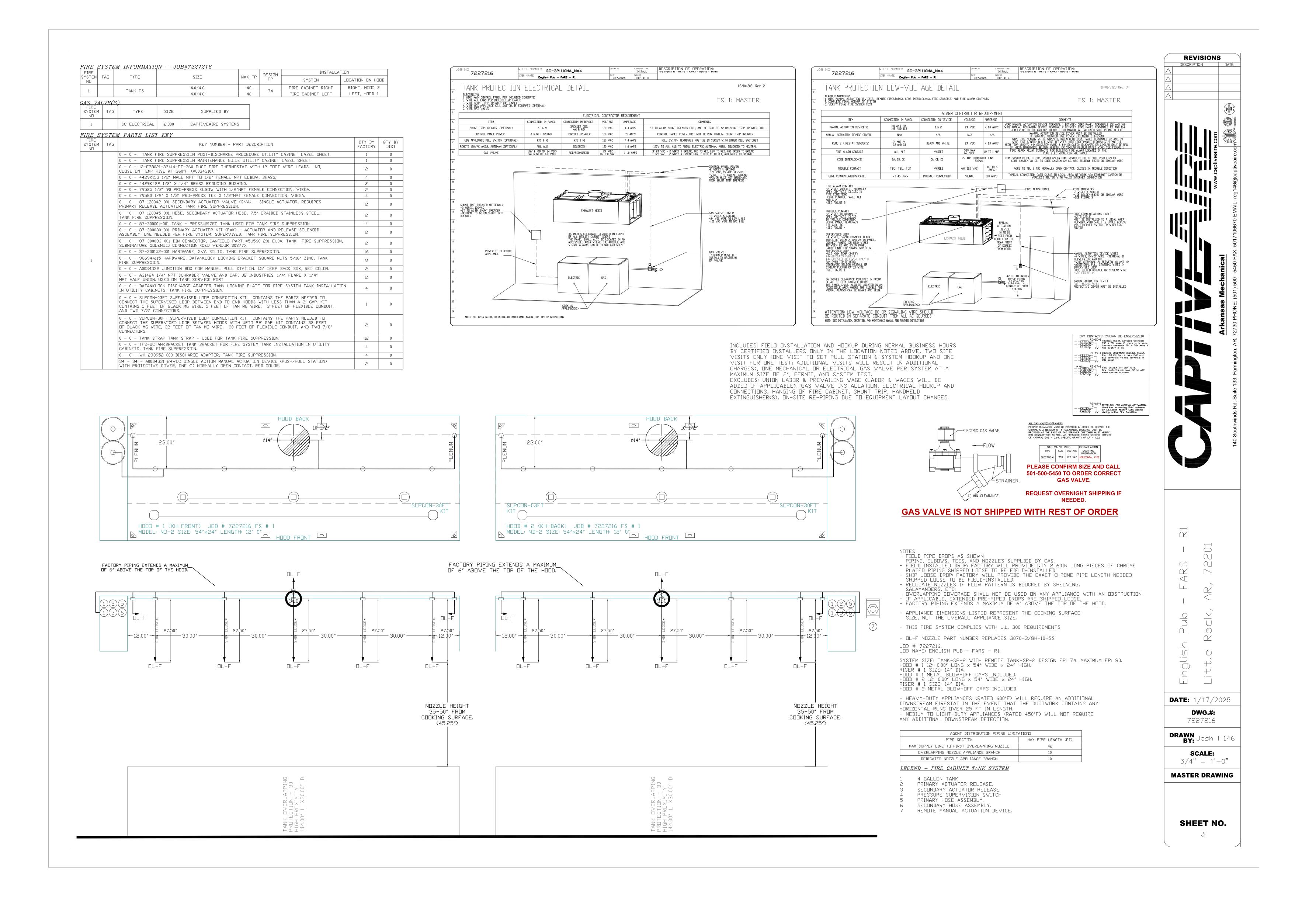
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M403

Т	TAC	QTY	FA	N UNIT	MODEL #	M	ANUFACTUR	RER C	CFM	ESP	RPM	MD.	TOR I	нр Вн	P PHASE	VOLT	FLA	DISCH		WEIGHT (LBS)	SONE	2																							
	KEF-	-1 1		DU85	HFA		CAPTIVEAL	RE 2	:040	1.250	1543	TEAD	1-ECM 1.	000 0.65	80 1	115	11.6	646	FPM	94	15.7																								
	KEF-	2 1		DU85	HFA		CAPTIVEAI	RE 2	:040	1.250	1543	TEAD	J-ECM 1.	000 0.65	80 1	115	11.6	646	FPM	94	15.7																								
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							FAN IN	FURMATI	IUN				MAX	T	1.,		ELE	CTRICAL	INFORMA		DUTSIDE	ATP M	AIVED A		LEAVING		T	ACITY		DISCHA		HEAT INFOR		MOISTURE					ORMATION			L MINIMUM			NOTES
		TAG		QTY	DOA:	S/RTU ME	DEL #	MANU	JFACTURE	ER BLI	DWER A	ETURN IR CFM	DUTSIDE AIR CFM	TOTAL CFM	(LBS)	ESP	HP PH	HASE VE	LT MCA	MOCP			DB V		DB WB	_	TOTAL	SENS.	IEER ISMF	DB DISCHE			MAX	REMOVAL RATE	GAS TYPE			TEMP RISE		UIRED INPUT S PRESSURE	(F	AREA AIR	FLUW (FM)	HEIGHT (FT)	NULE2
	R.	ΓU−1 (KITC	HEN)	1	CAS-H\	/AC3-I.40			TIVEAIRE			0	3500	3500	3243	1.000	3.00	3 20	135.24	150A	91.7°F 8	0.0°F 91.	.7°F 80	0.0°F 51	2°F 51.2°F	51.3°F	F 349.0 MBH	153.9 MBH	14.9 6.0	75.0°F 6	0.6°F 9	93 MBH 204	4.6 MBH1	58.7 LBS/HF	NATURA	AL 35799	28997	'2 71°F	7 IN. W.	.C. – 14 IN. W.	.C. 76	3.6 1	375	7.2	1,2,3,4,5,6,7,8,9,10,11,14,15,16,17,18,
	R	TU-2 (DIN	NG)	1	CAS-H	/AC3-I.20	0-18-15T	CAP	TIVEAIRE	E 18	3P-3	1170	1560	2730	2526	1.000	3.00	3 20	18 64A	70A	91.7°F 8	0.0°F 84.	.5°F 73	3.1°F 49	9.3°F 49.3°F	F 49.4°F	F 204.3 MBH	104.4 MBH	18.8 5.7	75.0°F	0.8°F 78	B.5 MBH 129	9.6 MBH 8	37.6 LBS/HR	NATURA	L 19268	8 15607	7 51°F	7 IN. W.	.C. – 14 IN. W.	.C. 60	2.1 1	084	7.2	1,2,3,4,5,6,7,8,9,10,12,14,15,16,17,18,
	RTU-	3 (UPSTAIF	S BAR)	1	CAS-H	VAC1-I.7	5-15-5T	CAP	TIVEAIRE	E 15	5P-1	810	350	1160	1201	1.000	1.50	3 20	18 26.8A	30A	91.7°F 8	0.0°F 80.	1.0°F 68	8.2°F 49	9.7°F 49.7°F	F 49.8°F	F 63.8 MBH	38.2 MBH	17.9 6.1	73.0°F	0.8°F 30	0.2 MBH 53	з мвн а	22.8 LBS/HR	NATURA	L 5946	9 48170	38°F	7 IN. W.	.C. – 14 IN. W.	.c. 22).3 ;	396	7.2	1,2,3,4,5,6,7,8,9,13,14,15,16,17,18,20
T		RTU-4 (R	?>	1	CAS-H	/AC1-I.100	-15-7.5T	CAP	TIVEAIRE	E 15	5P-1	810	700	1510	1356	1.000	2.00	3 20	18 36.1A	40A	91.7°F 8	0.0°F 82.	.7°F 71	1.2°F 50	0.1°F 50.0°F	50.0°F	98.7 MBH	53.5 MBH	18.6 12.8	2 75.0°F 6	0.3°F 4	12 MBH 61	0 мвн .	40.0 LBS/HR	NATURA	L 9959	6 80673	3 48°F	7 IN. W.	.C. – 14 IN. W.	.C. 29	3.7	529	7.2	1,2,3,4,5,6,7,8,9,13,14,15,16,17,18,20,
I : : : : : : : : : : : : : : : : : : :	DIREC INTEG REFRI EC ME ELECT SUCTI FACTE AVER	T DRIVE F RATED MON GERATION ITOR CONDI RONIC EXF ON LINE A IRY COMMIS AGING INTA	LENUM ITORING PRESSUR INSING ANSION CCUMULA SIONING KE, EVA	BLOWER. VIA CE RE MONITANS VALVE. ATOR WITH SAP AND L CONS	BELT I ELLULAR TORING O TXV N 5 YEAR F DISCHARG TRUCTION	DRIVEN B C□NNECT: N HIGH A □T ACCEF ARTS WA E TEMPE W/ R-13	OIL SENSI LOWERS AF ON BY MAN ND LOW PF TABLE RRANTY, 29 RATURE SE I INSULATI ER TO MA	RE NOT NUFACTL RESSURE 5 YEAR NSORS (ACCEPTA JRER SIDE O WARRAN (DISCHAR IMUM 20G	ABLE JF SYS ITY DN RGE SE JA EXT	STEM IN I STAINL ENSOR T	CLUDED _ESS S O BE F W/ 14G	THROUG TEEL HE FACTORY JA BASE	GH DIGIT CAT EXCH MOUNTE	AL INTER IANGER D WITHIN	I UNIT)							19 20 21 22	9. D□WN 20. MINIM 21. 1″ EX	DISCHARGI M ROOM A	E/DOWN AREA AS AL-WAL	SSUMED 7.2 LL CONSTRU	SUPPLY I)IFFUSER H						TH ED. '	VALUES	BASED	ON FACTE	RY CHARGE	E. ACTUAL SITI	E CHARGE	MAY DIFFE	5		

	H	MI SCHEDULE		
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #4	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #4	HMI #2 - SPACE	OFFICE	NOT AVERAGED	56
FAN #5	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #5	HMI #2 - SPACE	OFFICE	AVERAGED	56
FAN #6	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #6	HMI #2 - SPACE	OFFICE	NOT AVERAGED	56
FAN #7	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #7	HMI #2 - SPACE		AVERAGED	56

		www.captiveaire.com	Arkansas Mechanical	140 Southwinds Rd. Suite 133, Farmington, AR, 72730 PHONE: (501) 500 - 5450 FAX: 5017106670 EMAIL: reg146@captiveaire.com

REVISIONS DESCRIPTION DATE:

> PSW Job Number: 1001B

> > **BID DOCUMENTS**

ENGLISH PUB

Little Rock, Arkansas

Issue Date:

01.31.25

REVISIONS NUMBER DATE DESCRIPTION

04.03.25 Addendum 3

Contents: **CAPTIVEAIRE**

SYSTEM DETAILS

Batson Inc.
ENGINEERING SOLUTIONS 1300 Brookwood Drive Little Rock Arkansas 72202 501-664-3311 www.batson.com

MASTER DRAWING

SHEET NO.

 $\overline{}$ $\langle \rangle$ \bigcap \preceq \rightarrow +**DATE:** 1/17/2025 DWG.#: 7227216 DRAWN BY: Josh | 146 **SCALE:** 3/4" = 1'-0"

11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 15:1 TURNDOWN WITH NG AND 12:1 TURNDOWN WITH LP 12. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 16:1 TURNDOWN WITH NG AND 13:1 TURNDOWN WITH LP 13. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP 14. SUPPLY CFM MODITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE 15. FULLY MODULATING HOT GAS REHEAT 16. 15 DEGREE LOW AMBIENT OPERATION 17. HAIL GUARD FOR CONDENSING COIL FAN OPTIONS TAG QTY DESCRIPTION TAG DESCRIPTION FAN ACCESSORIES CLOGGED FILTER SWITCH - NOTIFICATION ON HMI FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS HIGH TURNDOWN OPTION FOR DOAS UNITS

MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES EXHAUST SUPPLY KEF-1 1 ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION GREASE GRAVITY WALL SIDE GRAVITY MOTORIZED WALL CUP DAMPER MOUNT DISCHARGE DAMPER DAMPER MOUNT 1 2 YEAR PARTS WARRANTY
1 GREASE BOX 24VAC FIRE INPUT
RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED KEF-2 YES DAMPER DAMPER MOUN 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS 2 KEF-2 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET 1 | ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION INLET PRESSURE GAUGE, 0-35 <u>CURB ASSEMBLIES</u> 2 YEAR PARTS WARRANTY 1 FAN BASE CERAMIC SEAL - DU/DR12HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
1 I 12-BDD DAMPER MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE WEIGHT ITEM SIZE SHIP LOOSE GAS STRAINER 3/4" SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE DEF-1 23.000"W X 23.000"L X 22.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT VENTED 1 SCR-12 BIRD SCREEN 41 LBS CURB KEF-1 1 2 YEAR PARTS WARRANT CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED 23.000"W X 23.000"L X 22.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT VENTED KEF-2 41 LBS CURB 1 INLET PRESSURE GAUGE, 0-35" 1 SHIP LODSE GAS STRAINER 1" RTU BLOWER DOOR SWITCH 2" MERV 13 FILTERS FOR RTU1 (QTY. 4) 17.500"W X 17.500"L X 16.000"H 0.250:12.000 PITCH ALONG LENGTH, RIGHT INSULATED. DEF-1 SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE 59.500"W X 91.000"L X 16.000"H 0.250:12.000 PITCH ALONG WIDTH, RIGHT INSULATED. RTU-1 (KITCHEN) 2" MERV 8 FILTERS FOR RTU1 (QTY. 4) 59.500°W X 91.000°L X 16.000°H 0.250:12.000 PITCH ALDNG WIDTH, RIGHT INSULATED. RTU-2 (DINING) 112 LBS CURB 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
1 RTU BLOWER DOOR SWITCH
1 RTU3 DOWN DISCHARGE, 400, 500 MBH 1 OVERHEAT STAT 6 # 6 RTU-3 (UPSTAIRS BAR) 113 LBS PLENUM CURB 41.000"W X 71.000"L X 24.000"H 0.250:12.000 PITCH ALDNG WIDTH, RIGHT INSULATED. 1 TOTAL CFM MONITORING
1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
1 RTU1 DOWN DISCHARGE CURB 41.000"W X 71.000"L X 16.000"H 0.250:12.000 PITCH ALONG WIDTH, RIGHT INSULATED. 7 # 7 RTU-4 (RR) 89 LBS 1 2" MERV 13 FILTERS FOR RTU3 (QTY. 4) 5 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, DL ECM CONDENSING FAN 1 2" MERV 8 FILTERS FOR RTU3 (QTY. 4) 1 DVERHEAT STAT
1 TOTAL CFM MONITORING
1 30 TON MODULATING COOLING OPTION, 208/230V. SIZE 3 CABINET, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS R454B LEAK DETECTOR OPTION FOR RTUS
CCUPIED SCHEDULING CONTROLS DESIGN SERVICE BIANNUAL ANALYSIS OF EQUIPMENT PERFORMANCE REQUIRED BY THE MANUFACTURER TO INTAKE FIRESTAT SET TO 135°F OPTIMIZE SYSTEM POST INSTALL. DETAILED PERFORMANCE REPORT TO BE PRESENTED TO R454B LEAK DETECTOR OPTION FOR RTUS RTU-3 (UPSTAIRS BAR) OWNERSHIP ON A BIANNUAL BASIS FOR THE FIRST YEAR. 1 R454B LEAK DETECTOR OPTION FOR RIOS
1 LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT
1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
1 OCCUPIED SCHEDULING
1 INTAKE FIRESTAT SET TO 135°F DISCHARGE FIRESTAT SET TO 240°F

5 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B

RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED 1 24VAC FIRE INPUT
1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
1 RTU1 DOWN RETURN 1 FREEZESTAT 1 DISCHARGE FIRESTAT SET TO 240°F 4 RTU-1 (KITCHEN) 1 30 TON MODULATING REHEAT OPTION FOR SIZE 3 CABINET - SPACE DEWPOINT CONTROL - R454B 1 RTU1 HAIL GUARD 1 RTU3 CURB DUCT HANGER
1 RTU3 DOWN RETURN RTUVZH044 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI RTUI CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION.

INCLUDES RECEPTACLE, COVER AND J BOX 1 RTU3 HAIL GUARD 1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI 1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI 1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
1 RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION.
INCLUDES RECEPTACLE, COVER AND J-BOX LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT RTU1 CURB DUCT HANGER 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) 1 HIGH TURNDOWN OPTION FOR DOAS UNITS EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES INLET PRESSURE GAUGE, 0-35" RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
SHIP LODSE GAS STRAINER 3/4" RTUVZH170 COMPRESSOR SOUND BLANKET 230V - FACTORY INSTALLED SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE UNIT MOUNTED VFD CONFIGURED FOR DCV 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS) CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET RTU BLOWER DOOR SWITCH 1 INLET PRESSURE GAUGE, 0-35" 1 SHIP LODSE GAS STRAINER 3/4" 2" MERV 13 FILTERS FOR RTU1 (QTY. 4) 2" MERV 8 FILTERS FOR RTU1 (QTY. 4) SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE DVERHEAT STAT 1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
1 RTU BLOWER DOOR SWITCH
1 RTU3 DOWN DISCHARGE 1 TOTAL CFM MONITORING
1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE RTUI DOWN DISCHARGE

1 COMPRESSOR, ECM CONDENSING FANS

R454B LEAK DETECTOR OPTION FOR RTUS

7.5 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B

1 RTUI CURB DUCT HANGER
1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
1 RTUI SIDE RETURN
1 RTUI HAIL GUARD
1 RTUVZHO44 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED
1 RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI

1 CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
1 LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT

1 24VAC FIRE INPUT 1 DUCT MOUNTED SMOKE DETECTOR - SHIPS LOOSE

RTU1 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX

5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)

EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

DCCUPIED SCHEDULING
INTAKE FIRESTAT SET TO 135°F

DISCHARGE FIRESTAT SET TO 240°F

FREEZESTAT

RTU-4 (RR)

1 2" MERV 13 FILTERS FOR RTU3 (QTY. 4) 2" MERV 8 FILTERS FOR RTU3 (QTY. 4)

TOMPRESSOR, ECM CONDENSING FANS

1 R454B LEAK DETECTOR OPTION FOR RTUS

1 LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT

1 DCCUPIED SCHEDULING

1 INTAKE FIRESTAT SET TO 135°F

1 FREEZESTAT

1 DISCHARGE FIRESTAT SET TO 240°F

1 15 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B

1 RTU3 CURB DUCT HANGER

1 VAV PACKAGE V// MANNINGER

1 REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
1 RTU3 DOWN RETURN
1 RTU3 HAIL GUARD

1 VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)

RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI

1 RTUVZH088 COMPRESSOR SOUND BLANKET 230V - FACTORY INSTALLED

1 DVERHEAT STAT
1 TOTAL CFM MONITORING
1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
1 15 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS

RTU3 CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX

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Little Rock, Arkansas

NUMBERDATEDESCRIPTION304.03.25Addendum 3

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Contents:

CAPTIVEAIRE

SYSTEM DETAILS

01.31.25

1001B

7302 Kanis Rd

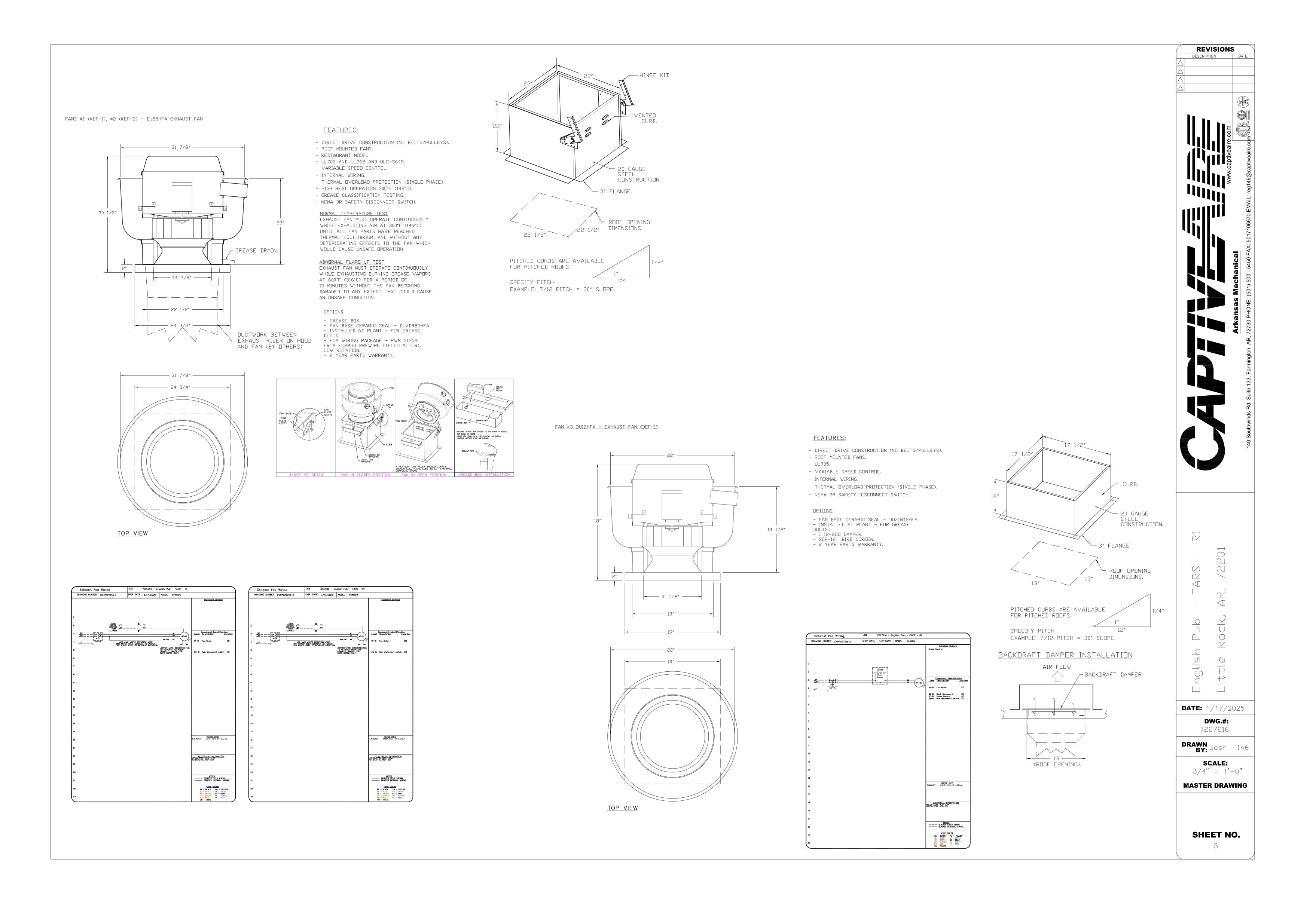
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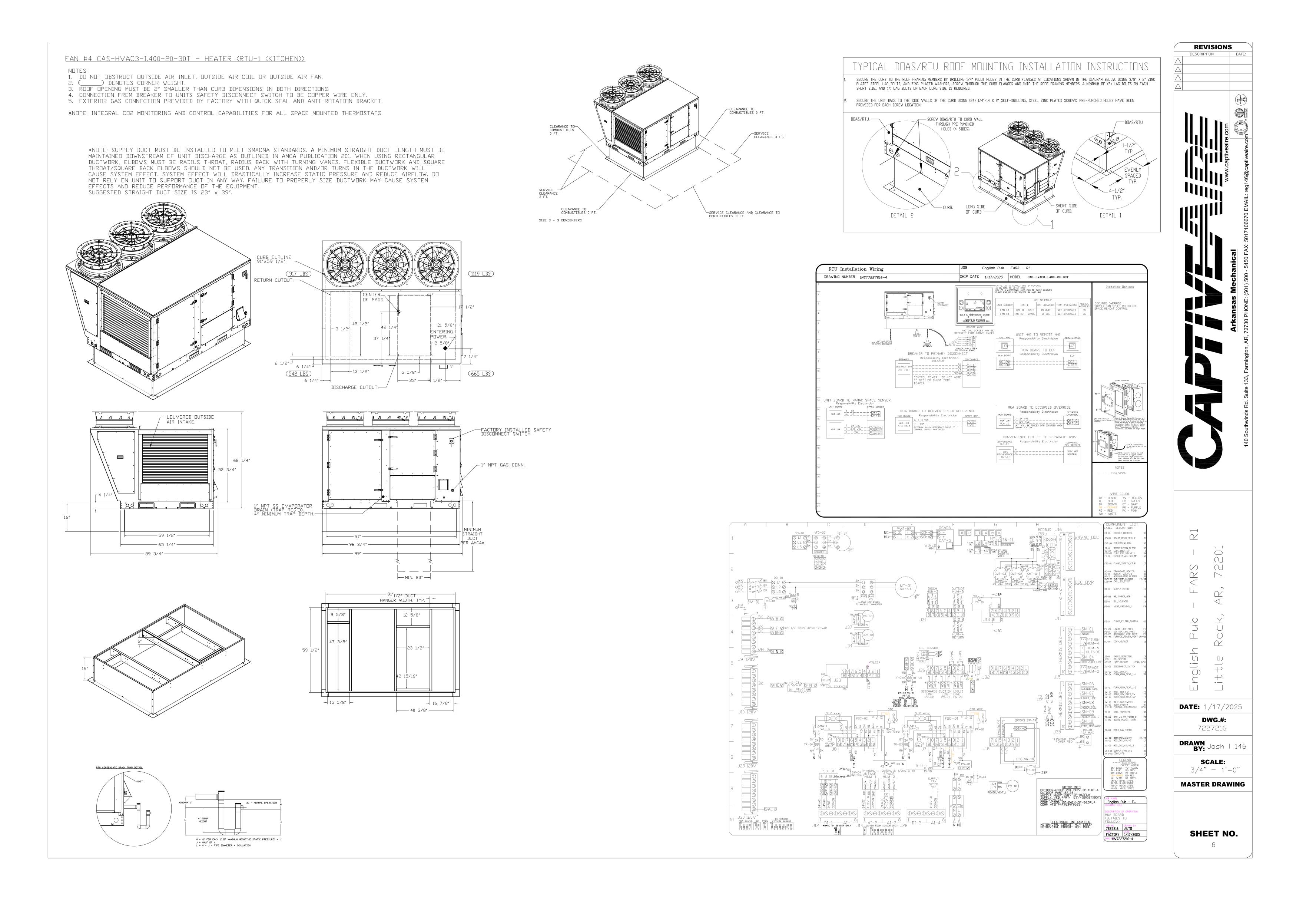
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ARKANSAS

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ENGINEER

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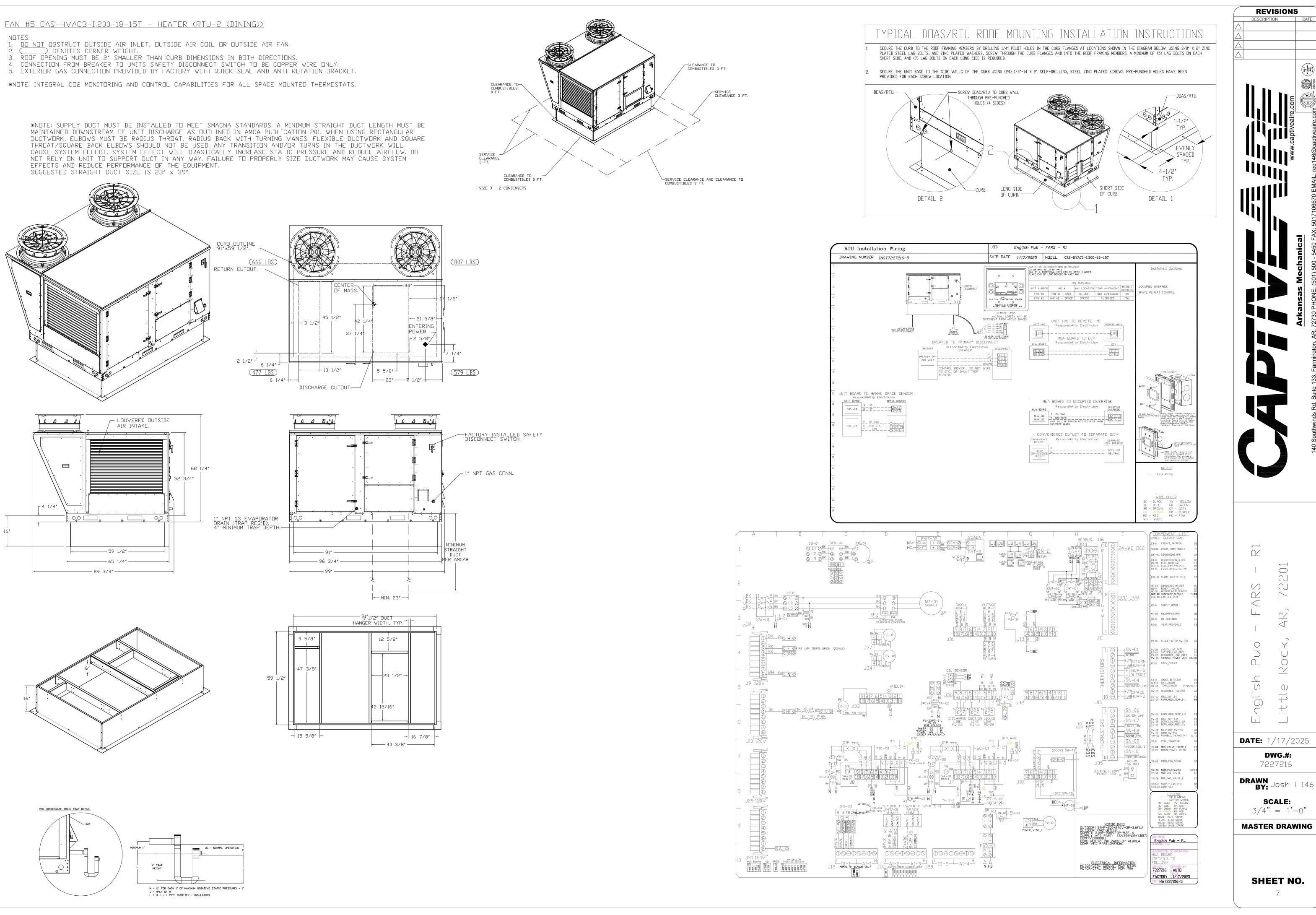
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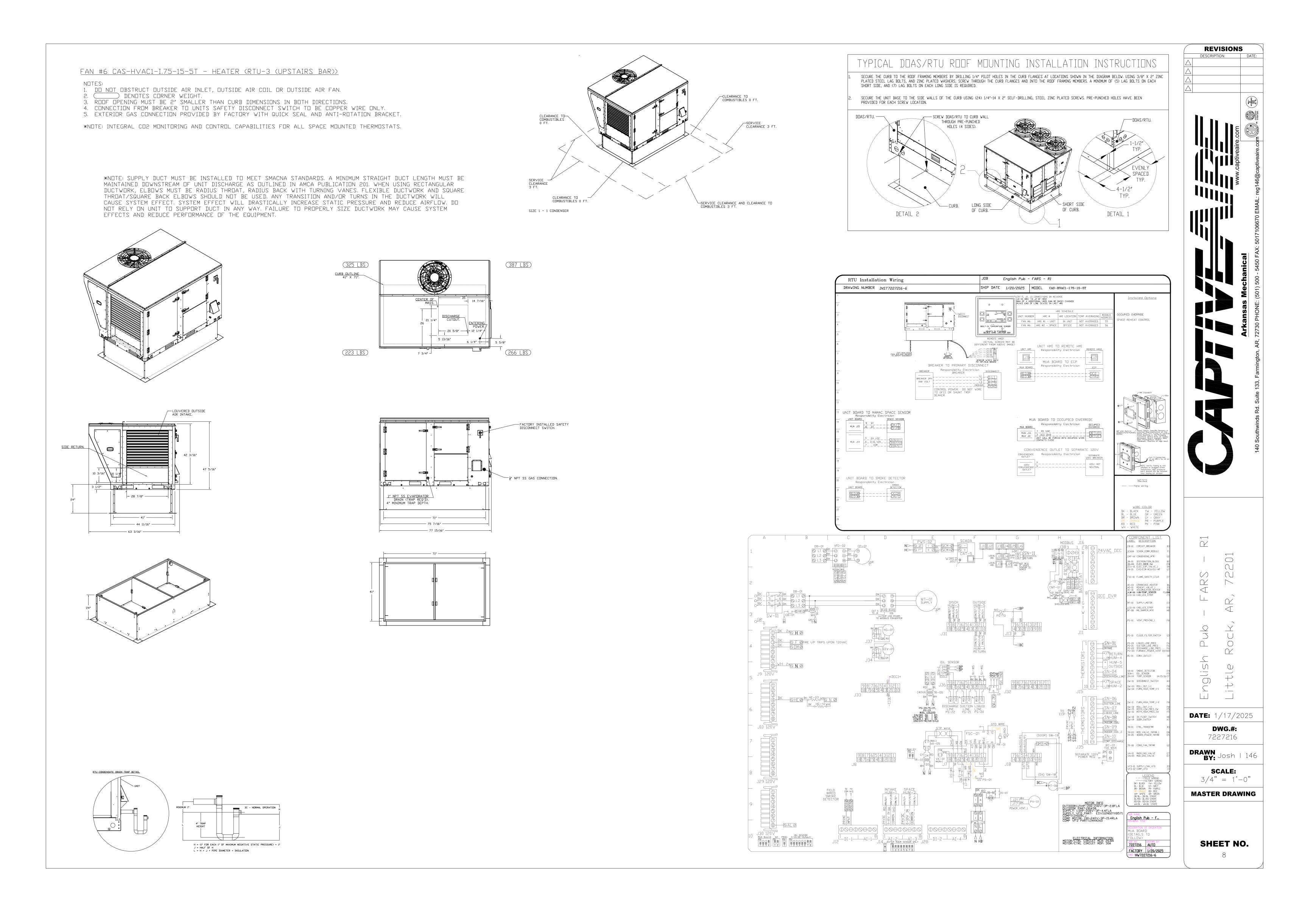
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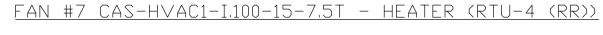
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401 W Capitol Ave, Suite 305

McClelland Consulting Engineers



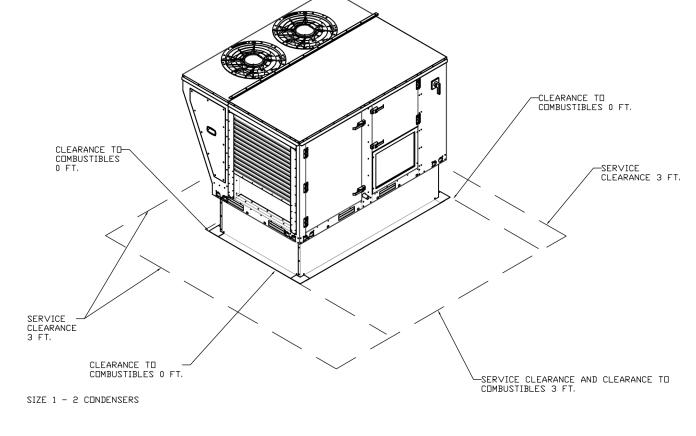
1. <u>DO NOT</u> OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.

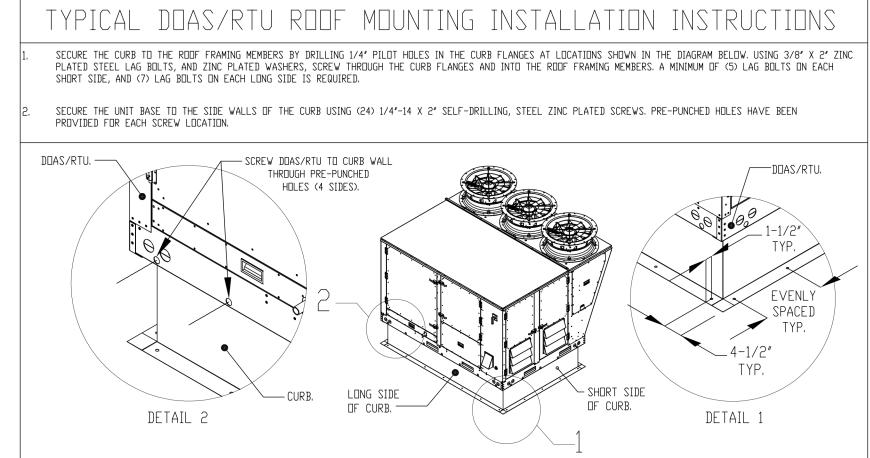
DENOTES CORNER WEIGHT. 3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY. 5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

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







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English

DWG.#:

DRAWN BY: Josh | 146

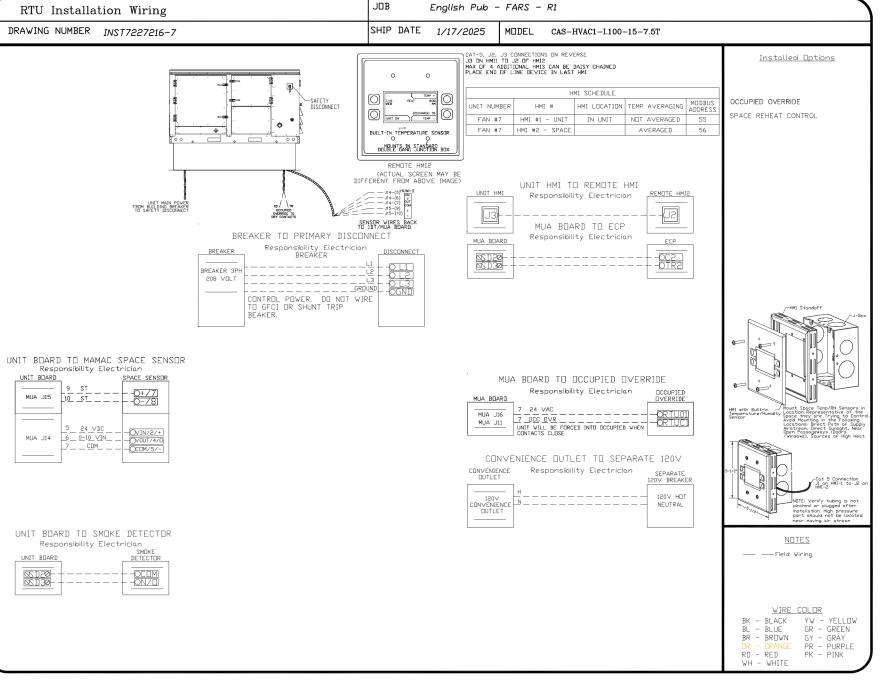
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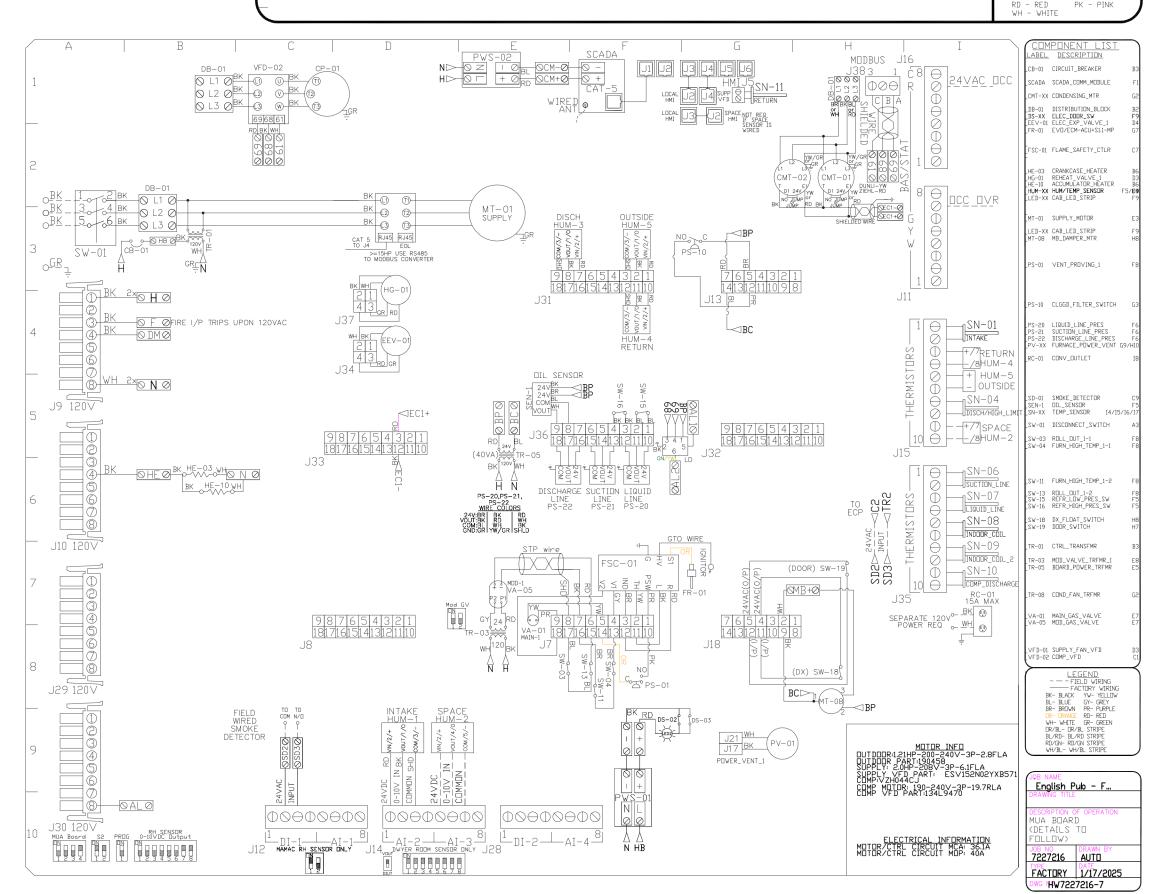
MASTER DRAWING

SHEET NO.

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REVISIONS

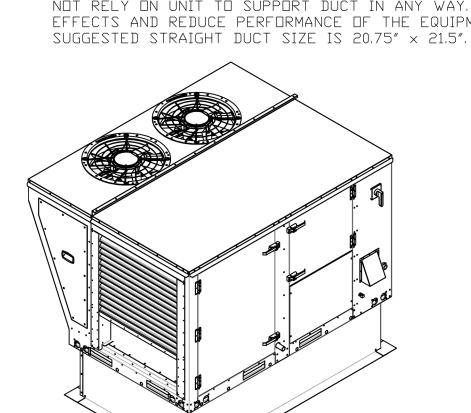


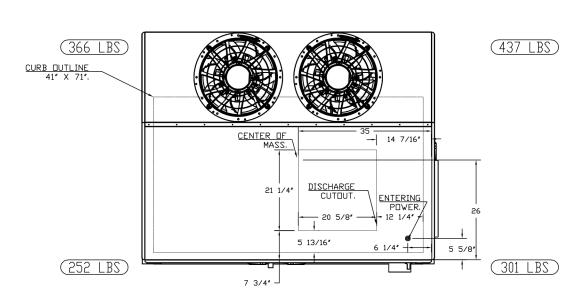


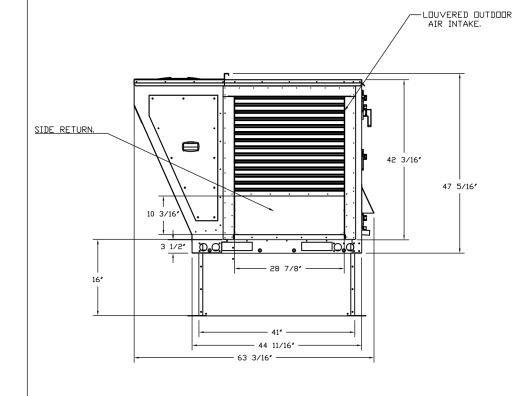
BID DOCUMENTS ENGLISH PUB Little Rock, Arkansas Issue Date:

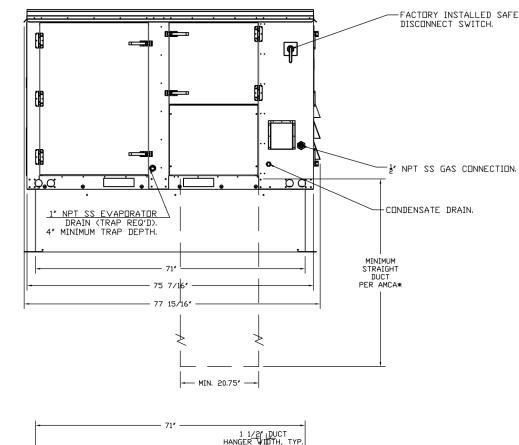
DATE: 1/17/2025 3 04.03.25 Addendum 3

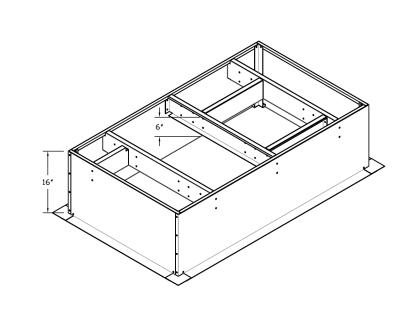
CAPTIVEAIRE

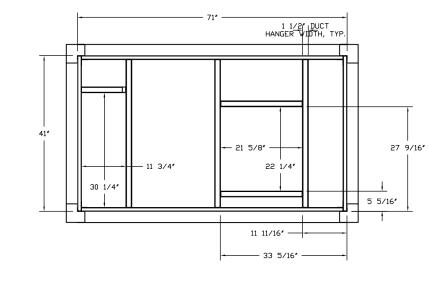


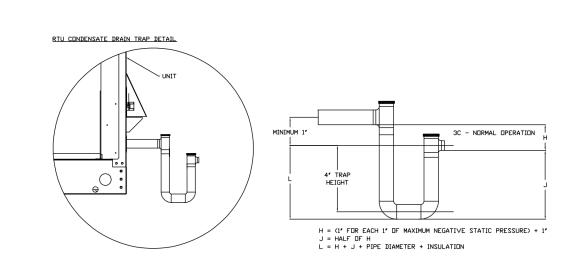
















REVISIONS DESCRIPTION DATE:

- HMI COMM WIRE - CAT5 WIRE

WALL MOUNTED IN DOUBLE GANG BOX

WALL MOUNTED IN DOUBLE GANG BOX

HMI 3

IN OFFICE

HMI 4

IN OFFICE

DINING HUMIDISTAT

- 18 GA, 24V - 5 CONDUCTOR

1300 Brookwood Dr Little Rock, AR 72202 PH: 501.664.3311 STRUCTURAL ENGINEERING Engineering Consultants, Inc 401 W Capitol Ave, Suite 305 Little Rock, AR 72201 PH: 501.376.3752

Batson Inc

CIVIL ENGINEERING **McClelland Consulting Engineers** 7302 Kanis Rd Little Rock, AR 72204

PH: 501.371.0272 INTERIOR DESIGN Rebecca Callis 840 Cherokee Rd Charlotte, NC 28207 PH: 704.301.4961

PSW Job Number: 1001B

BID DOCUMENTS

ENGLISH PUB

Little Rock, Arkansas

01.31.25

Issue Date:

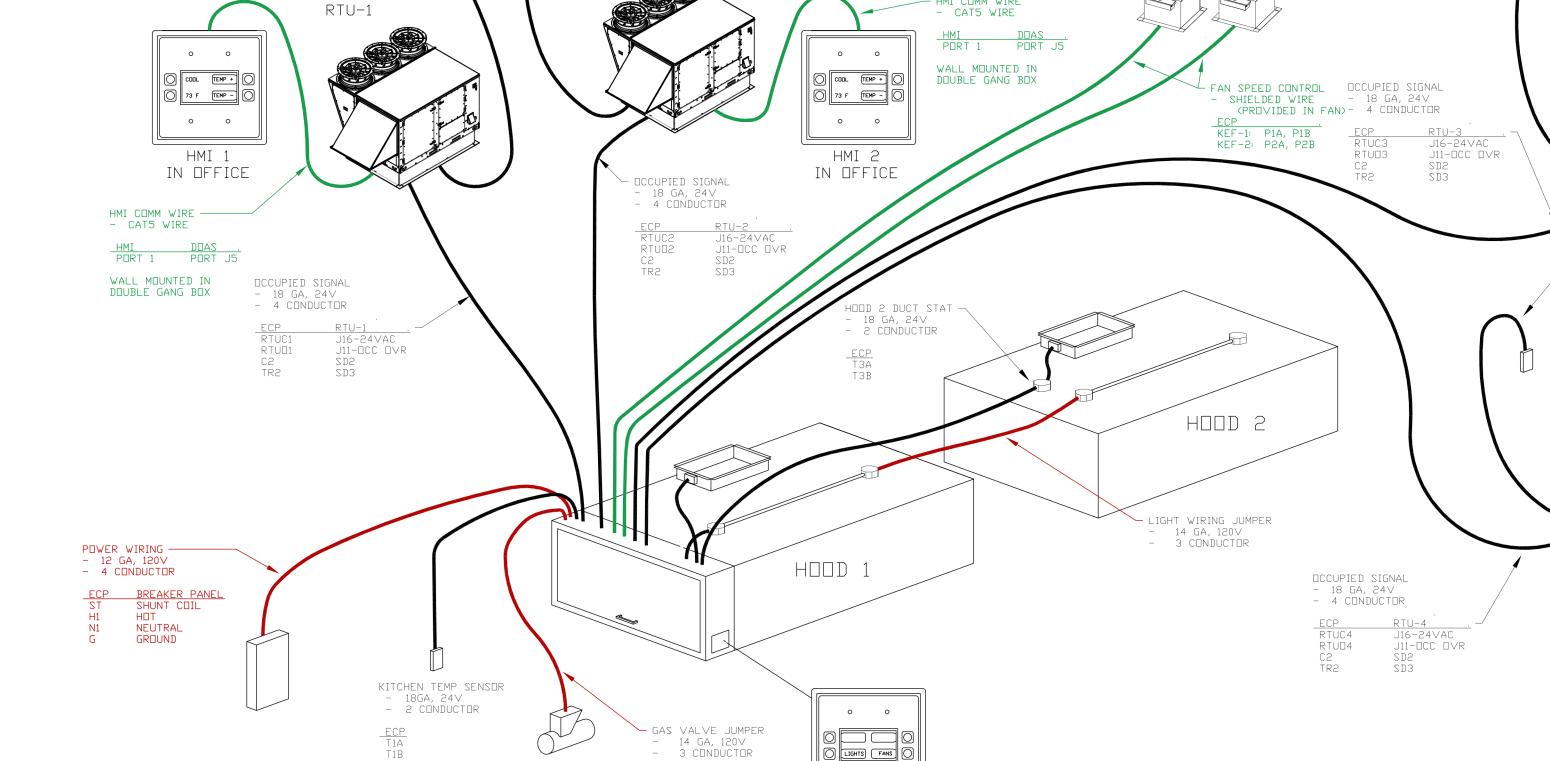
NUMBER DATE DESCRIPTION 04.03.25 Addendum 3

Contents: CAPTIVEAIRE

SYSTEM DETAILS

<u> ELECTRICAL PACKAGE - JOB#7227216</u> FANS CONTROLLED SWITCHES PACKAGE # LOCATION OPTION TYPE | \$\phi\$ HP VOLT FLA LOCATION QUANTITY EXHAUST 1 1.000 115 11.6 UTILITY CABINET KEF-1 LEFT EXHAUST 1 1.000 115 11.6 SMART CONTROLS THERMOSTATIC CONTROL SC-321110MA_MA4 UTILITY CABINET LEFT KEF-2 W/ 2 RELAYS ON/OFF WITH SUPPLY HOOD # 1 1 FAN SUPPLY 3 3.000 208 10.2 RTU-1 (Kitchen) TYPICAL FARS 2 HOOD 4 RTU WIRING INSTRUCTIONS - 18 GA, 24V - 5 CONDUCTOR KITCHEN HUMIDISTAT -- 18 GA, 24V - 5 CONDUCTOR ✓ DINING HUMIDISTAT KEF-2 - 18 GA, 24V - 5 CONDUCTOR J14-CDM J15-HUM2+ J15-HUM2-J14-0-10V J14-CDM J15-HUM2+ J15-HUM2-DDAS J14-24VAC J14-0-10V J14-CDM J15-HUM2+ J15-HUM2-

> WALL MOUNTED IN SINGLE GANG BOX (DO NOT INSTALL ON CEILING)



Terminal Blocks for wired connection— Connection for Modbus_ Factory wired OR Field Wired - Field Connection Antennas Field Connection to Router— OR Ethernet switch <u>CASlink Monitor and Control</u>

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

MONITORING AND CONTROL POINTS LIST

_			
DCV Packages	Function	SC 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
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		1
Prep Time Button	MONITOR & CONTROL		
E D //	MONTEMOD & GOVERNOT		

CONTROLS DESIGN SERVICE

BIANNUAL ANALYSIS OF EQUIPMENT PERFORMANCE REQUIRED BY THE MANUFACTURER TO OPTIMIZE SYSTEM POST INSTALL. DETAILED PERFORMANCE REPORT TO BE PRESENTED TO OWNERSHIP ON A BIANNUAL BASIS FOR THE FIRST YEAR.

ELECTRICIAN NOTES

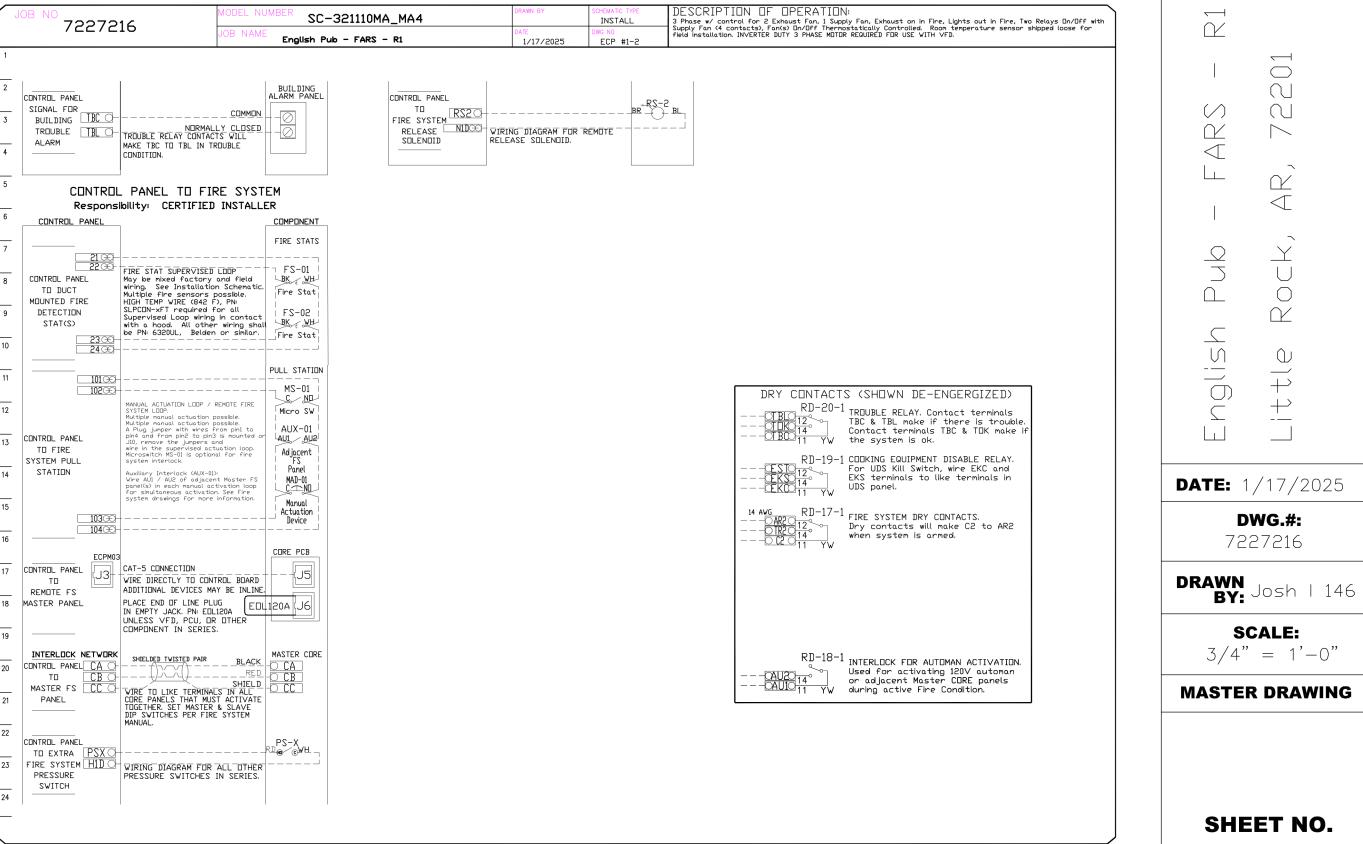
All Hood/Fan/DCV/UDS/PCU electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the | Captive-Aire electrical package.

required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility

| Failure by the Electrician to make ALL

of the Electrician. Light bulbs for kitchen hoods to be | provided and installed by electrician.

7227216	MODEL NUMBER SC-321110	MA_MA4	DRAWN BY	SCHEMATIC TYPE INSTALL		<pre>DF DPERATION: 2 Exhaust Fan, 1 Supply Fan, Ex</pre>	haust on in Fire, Lights out in Fire, Two Relays On/E
7227216	JOB NAME English Pub - FARS	S - R1	DATE 1/17/2025	DWG NO ECP #1-1	Supply Fan (4 contacts field installation, INVER	;), Fan(s) On/Off Thermostatically TER DUTY 3 PHASE MOTOR REQUIRED	haust on in Fire, Lights out in Fire, Two Relays On/(Controlled. Room temperature sensor shipped loose FOR USE WITH VFD.
			17177 2020	LOI III I	l		
BREAKER PANEL TO PRIMARY Responsibility: Electoric Elec	PRIMARY CONTROL PANEL Hot ONI Neutral ONI Ground ONI VIRE P	PWM COD END SPEED SIGNAL PRO ECM-02 SEN CONTROL PANEL TO ECM P2B BLACK COUPIED RTUDIO OF RTUDIO ANAL RTU-1 (KI	D STP THROUGH INN NLING TUBE. ALLOW INGH SLACK ON STP IPER HINGING. (EXHAN E: PWM SIGNAL IS F ISITIVE. HIEUTION RATED PAIR COUPLED C CCUPIED C LOG OUTPUT VOLTAG ANALOG INPUT OF IE	FOR STATE OF THE CONTROL OF THE CONT	MOTOR J GR J MOTOR J WOTOR J YW MOTOR J BK (EF-2 CM-02 AN: 02 -(7)	THE REQU SIGNAL FOR N1 O EXTERNAL ST TE	HOT TO GAS VALVE NEUTRAL ENERGIZED THROUGH LCD HEN FIRE SYSTEM ARMED. FOLLOWING CONNECTIONS MAY OR MAY NOT BE RED BASED ON JOBSITE SPECIFICATIONS HOT TO SHUNT COIL EUTRAL FROM SHUNT COIL EWITAL FROM SHUNT COIL ERMINAL IS ENERGIZED RE CONDITION.
BREAKER PANEL T Responsibilityi Elec	trician		B KLOG DUTPUT VOLTAG ANALOG INPUT OF MU	BLACK _ J28	1-(7)	CONTROL PANEL KS O NEL SIGNAL FOR N1 KS TE	HOT_TO_CONTACTOR_COIL ONTACTOR_COIL ONTACTOR_COIL CONTACTOR_COIL CRMINAL IS DE-ENERGIZED RE CONDITION.
EAKER PANEL REAKER 1PH 115V CA: 14.5A ICP: 25A KEF-1	FANS - HOT - POWER TO - Ground ECM FANS		IEL TO ACCES nsibility: Electr	rician	;	CONTROL PANEL SFC1 O O DRY CONTACT SF01 O O O O O O O O O O O O O O O O O O O	COMMON NORMALLY OPEN COMMON NORMALLY OPEN CONTACTS VILL MAKE TO NORMALLY OPEN
REAKER 1PH 115V 2A: 14.5A 1CP; 25A KEF-2	HDTPDWER TD GroundECM FANS	TO J4 CAT	SWITCHES FACTORY V -5 CONNECTION			CONTROL PANEL SFC5 O O O O O O O O O O O O O O O O O O O	COMMON COMMON NORMALLY OPEN NORMALLY OPEN NORMALLY OPEN
208V 208V CA: 135.2A ICP: 150A RTU-1 (Ki	LINE POWER TO LINE FAN Ground	——————————————————————————————————————	RE TO J-BOX ON TOP (WHITE GREEN ROUTE	ER (CONTROL PANEL H1 TO ID1 SIGNAL	CONTACTS WILL MAKE TO NORMALLY OPEN UPPLY FAN IS ON. BMS SWITCH C NO
CONTROL PANEL T Responsibility: Elec		TO VIRI WORLD WIDE MODI WEB UDP	E DIRECTLY TO COMMU ULE. NET REQUIRES 1) PORT 1444 & 1445 DI BOUND TRAFFIC ONLY.	DHCP 2)		SVITCH LIGHTS CONTROL PANEL GVO	POSITIVE TO GAS VALVE NEGATIVE
PWM COOLING TUBE, ALLO ENDUGH SLACK ON S EED SIGNAL PROPER HINGING, (EX ECM-01 SENSITIVE.	W FOR NIDEC MOTOR BK TO GR HAUST ONLY) TELCO MOTOR	ROOM TEMP SENS	E TO CONTROL BOARD. SOR IN ROOM AWAY FR RCES. DO NOT INSTALL THE CEILING GRID, SE	INSTALL ROD OM HEAT GR	1 1	GAS VALVE HMI V 24V DC ONLY (NOT GAS V	ENERGIZED THROUGH LCD HEN FIRE SYSTEM ARMED. NEEDED IF USING 120V /ALVE). VEL TO FIRE SYSTEM
CONTROL ANEL TO ECM PIB REDGE TO THE CONTROL SHIELDED TO SHEEDED TO SHEEDE TO S	BK TO BK KEF-1 BLACK(-) BLACK(-) BK KEF-1 FAN: 01	CAPTURE VOLUME SEN	TORY WIRED TEMPERAT SDR. MOUNTED IN HOOI LUME.	URE HE	10D 1 TURE 1		ALARM CONTRACTOR COMPONENT BUILDING ALARM PANEL FIRE INPUT
			E TO CONTROL BOARD. SOR MOUNTED IN EXHA	<u>H</u>	100 2 SER 1		IRECTLY TO CORE CIRCUIT ALI WILL MAKE ALZ IN FIRE



Batson Inc.
ENGINEERING SOLUTIONS 1300 Brookwood Drive Little Rock Arkansas 72202 501-664-3311 www.batson.com

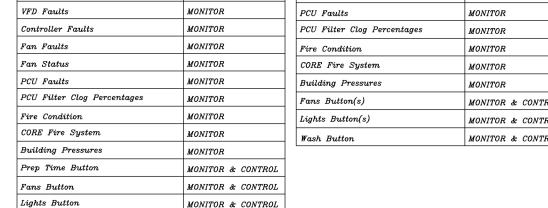
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DWG.#: 7227216

SCALE:

3/4" = 1'-0"

SHEET NO.



Lights Button MONITOR & CONTROL