



SAMPSON COUNTY 911 & ES FACILITIES

CLINTON,
NORTH CAROLINA

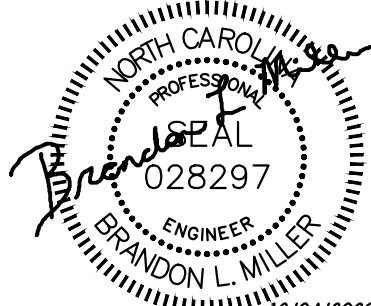
CONSTRUCTION DOCUMENTS

EQUIPMENT SCHEDULES

DATE 12.04.2020
PROJECT NO 20003

REVISIONS
NUM. DATE DESCRIPTION:
12-17-2020 REVISION #1

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SEAL 12/04/2020

SHEET NUMBER
E802

VARIABLE VOLUME ROOFTOP UNIT SCHEDULE													
SYMBOL	NO.	COMPRESSOR		DEFM		SUPPLY FAN			RELIEF FAN			POWER SUPPLY	
		BLA	LRA	QTY	FLA	QTY	HP	FLA	QTY	HP	FLA	MCA	MOCP
RTU-1	2	23.0/22.7	--/--	2	2.9/2.7	2	5/5	8.3/8.3	2	6/6	6.3/6.3	90.75	110
RTU-2	2	17.5/15.3	--/--	2	2.9/2.7	2	3/3	4.7/4.7	1	6	6.3	62.98	80
RTU-3	2	17.5/15.3	--/--	2	2.9/2.7	2	3/3	4.7/4.7	1	6	6.3	62.98	80
RTU-4	2	17.5/15.3	--/--	2	2.9/2.7	2	3/3	4.7/4.7	1	6	6.3	62.98	80

NOTES:

- ALL NON-LOW VOLTAGE ELECTRICAL WIRING IN METALLIC RACEWAY, SINGLE POINT ELECTRICAL CONNECTION WITH NON-FUSED DISCONNECT, CONTROL PANEL WITH DISPLAY.
- PHOTOELECTRIC TYPE SMOKE DETECTORS SHALL BE PROVIDED WITH EACH ROOFTOP UNIT. DUCT DETECTORS WILL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY THE MECHANICAL CONTRACTOR AND WIRED FOR UNIT SHUT-DOWN AND FIRE ALARM INTERFACE BY THE ELECTRICAL CONTRACTOR. DUCT DETECTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. TWO DUCT DETECTORS REQUIRED PER UNIT (ONE IN THE SUPPLY AND ONE IN THE RETURN).
- ALL ELECTRICAL COMPONENTS SERVING AND WITHIN RTU-1 & RTU-2 SHALL HAVE A MINIMUM SCOR RATING OF 65 KAIC.
- ALL ELECTRICAL COMPONENTS SERVING AND WITHIN RTU-3 & RTU-4 SHALL HAVE A MINIMUM SCOR RATING OF 65 KAIC.

CONSTANT VOLUME ROOFTOP UNIT SCHEDULE					
SYMBOL	AREA SERVED	POWER SUPPLY		DISCONNECT	
		MCA	MOCP	VOLTAGE	
RTU-5	EMS WAREHOUSE	23	30	460V-3Ø	30/F30-3P-3R

NOTES:

- ALL UNITS SHALL BE U.L. LABELED.
- SINGLE POINT ELECTRICAL CONNECTION, 65KA SCOR RATING.
- PROVIDE UNIT WITH A IONIZATION TYPE SMOKE DETECTOR, INSTALLED IN THE SUPPLY DUCT WIRED TO SHUT DOWN THE UNIT UPON ACTIVATION. SMOKE DETECTOR SHALL BE SUPPLIED, WIRED FOR INTERFACE WITH FIRE ALARM SYSTEM AND UNIT SHUTDOWN BY THE ELECTRICAL CONTRACTOR. SMOKE DETECTOR SHALL BE INSTALLED IN THE SUPPLY DUCT BY THE MECHANICAL CONTRACTOR.
- ALL ELECTRICAL COMPONENTS SERVING AND WITHIN RTU-5 SHALL HAVE A MINIMUM SCOR RATING OF 65 KAIC.

SERVER ROOM AIR CONDITIONING UNITS	
DESIGN CONDITIONS: 75° F. D.B., 50% R.H.	
A/C-1 & 2 LIEBERT MODEL DS070A5A (DOWNFLOW WITH TOP RETURN) ELECTRIC REHEAT - SCOR CONTROL, 25 KW, 85,300 BTUH; INFRARED HUMIDIFIER (STAINLESS STEEL PAN) - 22.0 LBS/HR, SUPPLY FAN - 2 Ø 5.4 H.P.	
ELECTRICAL DATA: 460V-3Ø, 59.9 WSA, 80 OPD.	
FURNISH UNIT WITH: ICOM FACTORY CONTROLS WITH LARGE GRAPHICS DISPLAY, LOCKING DISCONNECT SWITCH, FIRESTAT, SMOKE DETECTOR, RETURN AIR TEMPERATURE AND HUMIDITY SENSORS, HIGH EFFICIENCY FILTERS (MERV-8), FILTER CLOG DETECTION ALARM, 12" FLOORSTAND, DIGITAL SCROLL VARIABLE CAPACITY COMPRESSOR, INTELLISLOT COMM CARD, 4-YEAR EXTENDED COMPRESSOR WARRANTY.	
CONDENSING UNITS CU-1 & 2 LIEBERT MODEL MCL101 ELECTRICAL DATA: 460V-3Ø, 5.6 FLA, 6.3 WSA, 15 OPD FURNISH UNIT WITH: VFD FAN SPEED CONTROL FOR LOW AMBIENT OPERATION	
NOTES: 1. MOUNT CONDENSING UNITS ON 6" THICK CONCRETE PADS. INSTALL UNITS LEVEL. 2. ALL UNITS SHALL BE UL LISTED AND LABELED. 3. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. 4. ALL UNITS SHALL BE FURNISHED WITH 4-YEAR EXTENDED COMPRESSOR WARRANTY (5-YEAR WARRANTY). 5. PROVIDE 12" FLOORSTAND. 6. PROVIDE UNIT WITH RETURN DUCT CONNECTION. 7. PROVIDE ICOM MICROPROCESSOR BASED CONTROL MODULE. 8. ALL ELECTRICAL COMPONENTS SERVING AND WITHIN THE A/C UNITS AND CONDENSING UNITS SHALL HAVE A MINIMUM SCOR RATING OF 48 KAIC.	
LEAK DETECTION SYSTEM (BELOW RAISED FLOOR) PROVIDE LIEBERT LIQUI-TECT MONITORING SYSTEM. INSTALL LIQUID DETECTION CABLE (LIEBERT LT500Y WATER SENSING CABLE) AROUND THE PERIMETER OF MECHANICAL ROOM 129 BELOW THE RAISED FLOOR. LIQUID DETECTION SYSTEM CONTROL PANEL SHALL BE INTEGRATED WITH BAS.	

DUCTLESS SPLIT SYSTEMS (COOLING ONLY)									
INDOOR UNIT				OUTDOOR UNIT					
SYMBOL	LOCATION	ELECTRICAL DATA		SYMBOL	LOCATION	COMPRESSOR	ELECTRICAL DATA		
		MCA	VOLTAGE				BLA	FUSE	VOLTAGE
DSS-1	MECH/ELEC 45/44	--	208V-1Ø	MY M.C.	ODU-1	ROOF	4.4	8.75	15
DSS-2	MECH/ELEC 45/44	--	208V-1Ø	MY M.C.	ODU-2	ROOF	4.4	8.75	15

NOTES:

- PROVIDE UNITS WITH NON-LOCKING DISCONNECT FOR INDOOR UNIT.
- POWER SUPPLY TO CONDENSING UNIT IS A SINGLE POINT ELECTRICAL CONNECTION FOR THE SYSTEM (A/C UNIT AND CONDENSING UNIT). THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE CONDENSING UNIT AND FROM THE CONDENSING UNIT TO THE A/C UNIT INCLUDING CODE REQUIRED DISCONNECT SWITCHES.
- REFRIGERANT PIPING AND WIRING FOR WALL-MOUNTED INDOOR UNITS SHALL BE ROUTED IN WALL WHERE POSSIBLE.
- MOUNT INDOOR AC UNIT 8'-0" A.F.F. (KEEP UNIT BELOW CEILING) COORDINATE WITH ALL UTILITIES, LIGHTS, CEILING, ETC.
- ALL ELECTRICAL COMPONENTS SERVING AND WITHIN THE DSS UNITS AND CONDENSING UNITS SHALL HAVE A MINIMUM SCOR RATING OF 8 KAIC.

KITCHEN HOOD SCHEDULE (HOOD FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR)													
SYMBOL	HOOD TYPE	DUTY	EXHAUST AIR PLENUM			MAKE-UP AIR PLENUM			DIMENSIONS			MANUFACTURER	
			EXHAUST CFM	RISER (EACH) QTY	SIZE CFM	S.P. CFM	MAKE-UP CFM	RISER (EACH) QTY	SIZE CFM	S.P. CFM	LENGTH	WIDTH	HEIGHT
KH-1	I	HEAVY	1875	1	10x18	1875	0.40"	1500	2	4x24	750	0.20"	8'-4"
TYPE-I KITCHEN HOOD NOTES:													
ALL 430 STAINLESS STEEL CONSTRUCTION (WHERE EXPOSED). ALL COMPONENTS SHALL BE U.L. 710 LISTED AND LABELED. PROVIDE A WALL MOUNTED REMOTE CONTROL PANEL WITH MASTER DISCONNECT SWITCH IN A LOCATION THAT MEETS ADA REQUIREMENTS (COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO INSTALLATION). STARTERS FOR BOTH FANS, CONTROL VOLTAGE TRANSFORMER, FIRE CONTROL SYSTEM RELAY AND TERMINAL STRIP, MOUNT HOOD 6'-8" ABOVE FINISH FLOOR. PROVIDE STAINLESS STEEL ENCLOSURE AROUND TOP OF HOOD AS REQUIRED CLOSE TO CEILING. HOOD SHALL BE PROVIDED WITH AUTOMATICALLY OPERATED FIRED PIPE FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH NFPA 17 AND NFPA 96, CONTROL SWITCHES AND PILOT LIGHTS FOR EXHAUST AND MAKE-UP FANS, TWO (2) U.L. LISTED L55 SERIES E26 CANOPY LIGHT FIXTURES (HIGH TEMP. ASSEMBLY) PROVIDING MIN. 50 FOOT CANDLES, STAINLESS STEEL GREASE FILTERS, FIRE DAMPER (212" LINK) IN SUPPLY DUCT COLLAR. FIRE SUPPRESSION SYSTEM SHALL BE ANSIUL R-102 WITH REMOTE MOUNTED AUTOMAN. REMOTE PULL STATION FOR ACTIVATION OF FIRE SUPPRESSION SYSTEM SHALL BE PROVIDED AND INSTALLED WHERE INDICATED ON THE PLANS. FIRE SUPPRESSION SYSTEM SHALL BE U.L. 300 LISTED. NOZZLE TYPE AND LAYOUT SHALL BE APPLIANCE SPECIFIC.													
KITCHEN HOOD (TYPE-I AND TYPE-II) GENERAL NOTES:													
1. POWER SUPPLY TO THE KITCHEN HOOD IS A SINGLE POINT ELECTRICAL CONNECTION WITH STARTER COIL, CONTROL ONLY FOR CONTROL OF EXHAUST FAN, SUPPLY FAN, EXHAUST ON IN FIRE, LIGHTS OUT IN FIRE, RELAY ON/OFF, AND FAN(S) ON/OFF WITH THERMOSTATICALLY CONTROLLED. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WIRING REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLOD AND THE KITCHEN HOOD AND FANS. THE KITCHEN HOOD MANUFACTURER SHALL PROVIDE ALL CONTROL WIRING AND CONTROL INTERLOCKS BETWEEN THE KITCHEN HOOD AND THE FAN(S) INTEGRAL TO THE KITCHEN HOOD.													
TYPE-I KITCHEN HOOD FIRE SUPPRESSION NOTES:													
1. A MANUAL ACTUATION DEVICE SHALL BE LOCATED AT OR NEAR A MEANS OF EGRESS FROM THE COOKING AREA, A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET FROM THE KITCHEN EXHAUST SYSTEM. THE MANUAL ACTUATION DEVICE SHALL BE LOCATED A MINIMUM OF 3.5 FEET AND A MAXIMUM OF 4 FEET ABOVE THE FLOOR AND CLEARLY INDICATE THE HAZARD PROTECTED. THE MANUAL ACTUATION SHALL REQUIRE A MAXIMUM FORCE OF 40 POUNDS AND A MAXIMUM MOVEMENT OF 14 INCHES TO ACTUATE THE FIRE SUPPRESSION SYSTEM. REMOTE PULL STATION FOR ACTIVATION OF FIRE SUPPRESSION SYSTEM SHALL BE PROVIDED AND INSTALLED WHERE INDICATED ON THE PLANS (LOCATION TO BE VERIFIED WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION). MECHANICAL CONTRACTOR SHALL INSTALL 1/2" CONDUIT IN WALL FOR MANUAL PULL STATION.													
2. THE ACTUATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY: A. SHUT DOWN THE FUEL (SOLENOID GAS VALVE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR) AND/OR ELECTRICAL POWER (SHUNT-TRIP BREAKER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR) SUPPLY TO THE COOKING EQUIPMENT. THE FUEL AND/OR ELECTRICAL SUPPLY RESET SHALL BE MANUAL. B. ALLOW KITCHEN HOOD EXHAUST FAN TO CONTINUE TO OPERATE. C. SHUT DOWN ALL ASSOCIATE AIR HANDLING UNITS. D. NOTIFY THE FIRE ALARM SYSTEM (PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR) E. SHUT DOWN KITCHEN HOOD SUPPLY FAN.													
3. THE HOOD FIRE SUPPRESSION SYSTEM SHALL BE CONNECTED TO AND FED FROM THE FIRE SUPPRESSION SYSTEM CABINET AT THE TYPE-I KITCHEN HOOD.													

AIR SCRUBBER SCHEDULE - ALTERNATE #2									
SYMBOL	LOCATION	TYPE	DRIVE	ELECTRICAL DATA			DISCONNECT		
				FLA	H.P.	VOLTAGE			
AS-1	APPARTUS ROOM A 201	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-2	APPARTUS ROOM A 201	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-3	APPARTUS ROOM A 201	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-4	APPARTUS ROOM A 201	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-5	APPARTUS ROOM A 201	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-6	APPARTUS ROOM A 201	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-7	APPARTUS ROOM B 209	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-8	APPARTUS ROOM B 209	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-9	APPARTUS ROOM B 209	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-10	APPARTUS ROOM B 209	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-11	APPARTUS ROOM B 209	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		
AS-12	APPARTUS ROOM B 209	AIR CLEANER	DIRECT	13.6	3/4	120V-1Ø	30/F20-1P		

NOTES:

- CONTROL PANEL FOR EACH SYSTEM (ONE FOR APPARATUS ROOM A 201 AND ON FOR APPARATUS ROOM B 209)
- ACTIVATION PACKAGE FOR EACH SYSTEM
APPARATUS ROOM A 201: SIX SETS OF PHOTO SENSORS AND SIX TRACK MOUNTED DUCT SWITCHES
APPARATUS ROOM B 209: SIX SETS OF PHOTO SENSORS AND SIX TRACK MOUNTED DUCT SWITCHES
- ALL ELECTRICAL COMPONENTS SERVING AND WITHIN THE UNITS SHALL HAVE A MINIMUM SCOR RATING OF 7 KAIC.

CABINET SHALL BE ALL WELDED STEEL CONSTRUCTION PROVIDED WITH POWER COAT PAINT FINISH (COORDINATE FINISH/COLOR WITH ARCHITECT). TWO HINGED ACCESS PANELS, A DYWER MAGNEHELIC STATIC PRESSURE GAGE, FOUR HORIZONTAL AND ADJUSTABLE AIRFLOW GRILLES, QUICK LATCH FILTER COMPARTMENT CAPABLE OF HOLDING UP TO 15" OF FILTRATION.

INFRARED HEATERS SCHEDULE (NATURAL GAS)				
SYMBOL	VOLTAGE	AMPS	DISCONNECT	
IHF-1 TO IHF-4	120V-1Ø	2.6	MANUAL MOTOR STARTER	

NOTES:

- MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE VERIFIED WITH THE OWNER AND INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MINIMUM MOUNTING HEIGHT SHALL BE 14" 0" AFF WITH A MINIMUM OF CLEARANCE OF 18" ABOVE ANY SURFACE AND 82" FROM COMBUSTIBLES BELOW. INSTALL IN A HORIZONTAL POSITION PARALLEL RELATIVE TO THE FINISH FLOOR.
- PROVIDE UNITS WITH: CHAIN MOUNTING BRACKET, REMOTE TIMER SWITCH (SEE PLANS FOR QTY. AND LOCATIONS), INTERMITTENT PILOT IGNITION, AND FLEXIBLE CONNECTOR BY HEATER MANUFACTURER (24V CONTROL TRANSFORMER AS REQUIRED).
- SEQUENCE OF OPERATION: THE SPACE TIMER SWITCH SHALL CONTROL THE CALL FOR HEAT IN STAGES TO THE UNITS'S CONTROLLER. PER THE MANUFACTURER'S PRE-PROGRAMMED SEQUENCE, THE CONTROLLER SHALL PERFORM A SELF CHECK ROUTINE TO ASSURE PROPER IGNITION. WHEN THE FLAME IS DETECTED DURING THE TRIAL FOR IGNITION, SPARK IS SHUTOFF IMMEDIATELY AND THE GAS VALVE REMAINS ENERGIZED. THE MAIN BURNER FLAME IS CONSTANTLY MONITORED TO ASSURE THE SYSTEM CONTINUES TO OPERATE PROPERLY. ONCE THE TIMER HAS EXPIRED ITS SET TIME DURATION (ADJUSTABLE) OR THE TIMER SWITCH IS DE-ATTIVATED BY AN "OFF" BUTTON, THE GAS VALVE IS DE-ENERGIZED.
- ALL ELECTRICAL COMPONENTS SERVING AND WITHIN THE HEATERS SHALL HAVE A MINIMUM SCOR RATING OF 7 KAIC.

FAN SCHEDULE									
SYMBOL	LOCATION	TYPE	ELECTRICAL DATA			DISCONNECT	CONTROLS		
			WATTS	H.P.	VOLTAGE				
F-1	ROOF (SERVER/IT - 131)	EXHAUST	--	1/4	120V-1Ø	--	30/F20-1P-3R	6,10	
F-3	LOCKER ROOM - 113	EXHAUST	21	--	120V-1Ø	--	MANUAL MOTOR STARTER	3	
F-4	JANITOR - 121	EXHAUST	21	--	120V-1Ø	--	MANUAL MOTOR STARTER	3	
F-5	ELECTRICAL - 211	EXHAUST	--	1/4	120V-1Ø	--	MANUAL MOTOR STARTER	2	
F-6	UNISEX SHOWER/TOILET - 111	EXHAUST	17	--	120V-1Ø	--	MANUAL MOTOR STARTER	9	
F-7	UNISEX SHOWER/TOILET - 110	EXHAUST	17	--	120V-1Ø	--	MANUAL MOTOR STARTER	9	
F-8	ROOF (STORAGE 059)	EXHAUST	--	1/3	120V-1Ø	--	MANUAL MOTOR STARTER	1	
F-9	PUBLIC TOILET - 003	EXHAUST	21	--	120V-1Ø	--	MANUAL MOTOR STARTER	9	
F-10	LAUNDRY - 026	EXHAUST	21	--	120V-1Ø	--	MANUAL MOTOR STARTER	3	
F-11	JANITOR - 061	EXHAUST	21	--	120V-1Ø	--	MANUAL MOTOR STARTER	3	
F-12	ROOF (APPARATUS ROOM - 201)	EXHAUST	--	1/2	120V-1Ø	--	MANUAL MOTOR STARTER	7,8	
F-13	ROOF (APPARATUS ROOM - 201)	EXHAUST	--	1/4	120V-1Ø	--	MANUAL MOTOR STARTER	3,7	
F-14	ROOF (CORRIDOR 208)	EXHAUST	--	1/4	120V-1Ø	--	MANUAL MOTOR STARTER	3	
F-15	ROOF (RESTOCKING BAYS - 207)	EXHAUST	--	1/4	120V-1Ø	--	MANUAL MOTOR STARTER	7,8	
F-16	ROOF (APPARATUS ROOM - 209)	EXHAUST	--	1/2	120V-1Ø	--	MANUAL MOTOR STARTER	7,8	
F-18	NOT USED								
F-18	ROOF (LOCKER ROOM - 013)	EXHAUST	--	1/4	120V-1Ø	--	MANUAL MOTOR STARTER	6,10	
KEF-1	ROOF UPBLAST - (KITCHEN)	EXHAUST	--	1/3	120V-1Ø	--	30/F20-1P-3R	11	
KSE-1	ROOF MAKEUP - (KITCHEN)	MAKE-UP	--	1/4	120V-1Ø	--	30/F20-1P-3R	11	
REF-1	APPARTUS ROOM A 201	HVLS	--	1½	460V-3Ø	--	30/F20-3P	5,12	
REF-2	APPARTUS ROOM A 201	HVLS	--	1½	460V-3Ø	--	30/F20-3P	5,12	
REF-3	APPARTUS ROOM B 209	HVLS	--	1½	460V-3Ø	--	30/F20-3P	5,12	
REF-4	APPARTUS ROOM B 209	HVLS	--	1½	460V-3Ø	--	30/F20-3P	5,12	
NOTES:									
1. INTERLOCK FAN WITH BUILDING AUTOMATION SYSTEM									
2. WALL MOUNTED THERMOSTAT (REVERSE ACTING, SET FOR 80°)									
3. CONTINUOUS OPERATION									
4. MANUAL TIMER SWITCH (0-4 HOUR) WITH PHENOLIC FAN IDENTIFICATION LABEL ABOVE SWITCH									
5. REMOTE MOUNTED WIRED WALL CONTROL WITH VARIABLE SPEED WITH PHENOLIC FAN IDENTIFICATION LABEL ABOVE CONTROLLER									
6. MANUAL SWITCH WITH PROTECTIVE COVER (SEE SEQUENCE OF OPERATION) WITH PHENOLIC FAN IDENTIFICATION LABEL ABOVE SWITCH PLATE TO READ "FIRE SUPPRESSION AGENT PURGE FAN"									
7. INTERLOCK WITH CARBON MONOXIDE DETECTOR									
8. MANUAL TIMER SWITCH (0-4 HOUR) WITH CO SENSOR OVERRIDE (SEE SEQUENCE OF OPERATION)									
9. INTERLOCK WITH ROOM LIGHT SWITCH									
10. INTERLOCK WITH HYDROGEN DETECTION SYSTEM									
11. INTERLOCK WITH KITCHEN HOOD CONTROLS									
12. INTERLOCK WITH FIRE ALARM (FAN SHALL SHUTDOWN UPON ACTIVATION OF FIRE ALARM SYSTEM)									

PARALLEL FAN-POWERED BOX SCHEDULE (ELECTRIC FAN)									
SYMBOL	PRIMARY CFM		FAN CFM	ELECTRICAL DATA		VOLTAGE	ENVIRO-TEC VFR-EH	RUNOUT SIZE	
	MAXIMUM	MINIMUM		FAN H.P.	ELEC. HEAT				
1.1	1335	335	535	1/4	8.5	460V-3PH	1011	14	
1.2	1260	315	505	1/4	8.0	460V-3PH	1011	14	
1.3	470	120	190	1/13	3.0	277V-1PH	0804	10	
1.4	975	245	390	1/6	6.5	460V-3PH	1006	12	
1.5	1000	250	400	1/4	6.5	460V-3PH	1011	12	
1.6	600	150	240	1/13	4.0	277V-1PH	0804	10	
1.7	600	150	240	1/13	4.0	277V-1PH	0804	10	
1.8	2080	520	835	1/2	13.0	460V-3PH	1418	16	
1.9	750	180	300	1/6	5.0	277V-1PH	0804	10	
1.10	1980	495	795	1/4	12.5	460V-3PH	1211	16	
1.11	1050	265	420	1/4	6.5	460V-3PH	1011	12	
1.12	1200	300	480	1/4	7.5	460V-3PH	1011	12	
1.13	650	165	260	1/13	4.5	277V-1PH	0804	10	
1.14	500	125	200	1/13	3.5	277V-1PH	0804	10	
2.1	490	125	200	1/13	3.5	277V-1PH	0804	10	
2.2	270	70	110	1/13	2.0	277V-1PH	0604	8	
2.3	450	115	180	1/13	3.0	277V-1PH	0804	10	
2.4	450	115	180	1/13	3.0	277V-1PH	0804	10	
2.5	400	125	200	1/13	3.5	277V-1PH	0804	10	
2.6	440	110	180	1/13	3.0	277V-1PH	0804	10	
2.7	400	100	160	1/13	2.5	277V-1PH	0804	8	
2.8	540	135	220	1/13	3.5	277V-1PH	0804	10	
2.9	650	165	260	1/13	4.5	277V-1PH	0804	10	
2.10	400	100	160	1/13	2.5	277V-1PH	0804	8	
2.11	475	120	190	1/13	3.0	277V-1PH	0804	10	
2.12	540	135	220	1/13	3.5	277V-1PH	0804	10	
2.13	690	175	280	1/13	4.5	277V-1PH	0804	10	
2.14	810	205	325	1/6	5.5	277V-1PH	1006	12	
2.15	700	175	280	1/13	4.5	277V-1PH	0804	10	
2.16	950	240	380	1/6	6.0	460V-3PH	1006	12	
3.1	500	125	200	1/13	9.0	460V-3PH	0804	16	
3.2	300	75	120	1/13	9.0	460V-3PH	0604	16	
3.3	700	175	280	1/13	4.5	277V-1PH	0804	10	
3.4	300	75	120	1/13	2.0	277V-1PH	0604	8	
3.5	440	110	180	1/13	3.0	277V-1PH	0804	10	
3.6	600	150	240	1/13	4.0	277V-1PH	0804	10	
3.7	370	95	150	1/13	2.5	277V-1PH	0804	8	
3.8	900	225	360	1/6	6.0	460V-3PH	1006	12	
3.9	350	90	140	1/13	2.5	277V-1PH	0804	8	
3.10	1720	330	680	1/4	11.0	460V-3PH	1211	14	
3.11	700	175	280	1/13	4.5	277V-1PH	0804	10	
3.12	1800	540	72	1/4	11.5	460V-3PH	1211	14	
NOTES:									
1. ELECTRIC HEATER SHALL BE FURNISHED WITH DISCONNECT SWITCH, MAGNETIC CONTACTORS, AIRFLOW SWITCH, MANUAL RESET THERMAL CUTOUT.									
2. ELECTRIC HEAT UP TO 10 AND INCLUDING 5.0 KW SHALL BE SINGLE STEP. ELECTRIC HEATERS OVER 5.0 KW SHALL BE TWO STEP.									
3. DDC CONTROLS SHALL BE FURNISHED TO THE BOX MANUFACTURER BY THE CONTROLS VENDOR. BOX MANUFACTURER SHALL FACTORY MOUNT AND WIRE CONTROL AND INSTALLATION OF CONTROLS SHALL INCLUDE CONTACTORS TRANSFORMER, FAN RELAY, HEAT RELAY (ONE OR TWO STAGE AS REQUIRED), AIR FLOW PROBE, CONTROL COVER, AND ALL WIRING AND LABOR FOR A COMPLETE AND OPERATIONAL SYSTEM.									
4. EACH FAN BOX SHALL BE WIRED TO ITS ASSOCIATED ROOFTOP UNIT SMOKE DETECTOR TO SHUT-DOWN UPON SMOKE SIGNAL ALONG WITH ROOFTOP UNIT.									
5. ALL ELECTRICAL COMPONENTS SERVING AND WITHIN THE TERMINAL UNITS SHALL HAVE A MINIMUM SCOR RATING OF 48 KAIC.									

PARALLEL FAN-POWERED BOX SCHEDULE (ELECTRIC HEAT)										317
SYMBOL	PRIMARY CFM		FAN CFM	ELECTRICAL DATA			ENVIRO-TEC VFR-EM	RUNOUT SIZE		
	MAXIMUM	MINIMUM		FAN H.P.	ELEC. HEAT	VOLTAGE				
1.1	1335	335	535	1/4	8.5	460V-3PH	1011	14		
1.2	1260	315	505	1/4	8.0	460V-3PH	1011	14		
1.3	470	120	190	1/13	3.0	277V-1PH	0804	10		
1.4	975	245	390	1/6	6.5	460V-3PH	1006	12		
1.5	1000	260	400	1/4	6.5	460V-3PH	1011	12		
1.6	600	150	240	1/13	4.0	277V-1PH	0804	10		
1.7	600	150	240	1/13	4.0	277V-1PH	0804	10		
1.8	2080	520	835	1/2	13.0	460V-3PH	1418	16		
1.9	750	190	300	1/6	5.0	277V-1PH	1006	10		
1.10	1880	480	795	1/4	12.5	460V-3PH	1211	16		
1.11	1050	265	420	1/4	6.5	460V-3PH	1011	12		
1.12	1200	300	480	1/4	7.5	460V-3PH	1011	12		
1.13	650	165	260	1/13	4.5	277V-1PH	0804	10		
1.14	500	125	200	1/13	3.5	277V-1PH	0804	10		
2.1	490	125	200	1/13	3.5	277V-1PH	0804	10		
2.2	270	70	110	1/13	2.0	277V-1PH	0604	8		
2.3	450	115	180	1/13	3.0	277V-1PH	0804	10		
2.4	450	115	180	1/13	3.0	277V-1PH	0804	10		
2.5	500	125	200	1/13	3.5	277V-1PH	0804	10		
2.6	440	110	180	1/13	3.0	277V-1PH	0804	10		
2.7	400	100	160	1/13	2.5	277V-1PH	0804	8		
2.8	540	135	220	1/13	3.5	277V-1PH	0804	10		
2.9	650	165	260	1/13	4.5	277V-1PH	0804	10		
2.10	450	100	160	1/13	2.5	277V-1PH	0804	8		
2.11	475	120	190	1/13	3.0	277V-1PH	0804	10		
2.12	540	135	220	1/13	3.5	277V-1PH	0804	10		
2.13	690	175	280	1/13	4.5	277V-1PH	0804	10		
2.14	810	205	325	1/6	5.5	277V-1PH	1006	12		
2.15	700	175	280	1/13	4.5	277V-1PH	0804	10		
2.16	950	240	380	1/6	6.0	460V-3PH	1006	12		
3.1	500	125	200	1/13	9.0	460V-3PH	0804	16		
3.2	300	75	120	1/13	9.0	460V-3PH	0604	16		
3.3	700	175	280	1/13	4.5	277V-1PH	0804	10		
3.4	300	75	120	1/13	2.0	277V-1PH	0604	8		
3.5	440	110	180	1/13	3.0	277V-1PH	0804	10		
3.6	600	150	240	1/13	4.0	277V-1PH	0804	10		
3.7	370	95	150	1/13	2.5	277V-1PH	0804	8		
3.8	900	225	360	1/6	6.0	460V-3PH	1006	12		
3.9	350	90	140	1/13	2.5	277V-1PH	0804	8		
3.10	1720	430	690	1/4	11.0	460V-3PH	1211	14		
3.11	700	175	280	1/13	4.5	277V-1PH	0804	10		
3.12	1800	450	720	1/4	11.5	460V-3PH	1211	14		