FLOOR PLAN

" WHEN PLOTTED 36

EVICE SCHEDULE

NOTE: LOCATION AND ORIENTATION OF DIRECTIONAL BLOW PATTERN DIFFUSERS IN THE KITCHEN IS CRITICAL INSTALLER WILL ENSURE PROPER INSTALLATION OF DIFFUSERS. CONTACT THE NCA CONSULTANTS PROJECT COORDINATOR IMMEDIATELY WITH ANY CONFLICTS THAT PREVENT INSTALLATION PER THE PROPOSED DESIGN.

PLENUMIZED CURB INSTALLATION

1. CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS THE FLOOR PLAN PAY ATTENTION TO THE LOCATION OF STRUCTURE IN ORDER TO ACCOMMODATE THE DUCT DROPS.

COORDINATE LOCATION OF AUDIO-VISUAL ANNUNCIATOR ON SITE WITH WALL—MOUNTED EQUIPMENT. REFER TO DETAILS ON SHEET E-S, THIS SET FOR WIRING DIAGRAMS AUDIO-VISUAL ANNUNCIATOR IED INTO SMOKE DETECTOR. NOTE: INSTALL REMOTE SENSORS IN THE RETURN DUCTS OR RETURN GRILLE CANS OF EACH RTU (TYP.)

. GENERAL CON

FLANT TAB OF START COLLAR INSIDE CURB, TIGHT AGAINST INSULATION. LER. ALLOW SEALER TO DRY PRIOR TO PROCEDING.

8. APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDUIT STRAP PER MANUFACTURERS INSTRUCTIONS.

9. SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE-SENSITIVE FOIL TAPE. DO NOT USE TAPE MEANT FOR RIGID DUCTBOARD. SQUEEGEE OUT ALL AIR BUBBLES FOR PROPER ADHESION.

10. TURN CURB RIGHT SIDE UP, LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK, INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.

11. GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS. 12. INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT SMACNA AND LOCAL CODES.

13. NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

AIR BALANCE SCHEDULE TAG SUPPLY AIR OUTSIDE AIR RETURN AIR EXHAUST AIR BLDG. PRESSURE % OUTSIDE AIR RTU-1 3000 CFM 750 CFM 2250 CFM + 750 CFM + 500 CFM RTU-2 2000 CFM 500 CFM 1500 CFM RTU-3 2000 CFM 500 CFM 1500 CFM RTU-4 3000 CFM 750 CFM 2250 CFM + 750 CFM 885 CFM** - 885 CFM 300 CFM - 300 CFM TOTAL* 10000 CFM 2500 CFM 7500 CFM 2385 CFM + 115 CFM

TOTAL* 1 00000 CFM | 2500 CFM | 7500 CFM | 2385 CFM | + 115 CFM | 25

**NOTE: UPON START-UP VERIFY THAT THE EXHAUST FAN CURRENT SENSOR IS SET TO THE
MOTOR AMPERAGE. IF IT IS NECESSARY TO ADJUST THE AMPERAGE OF THE EXHAUST HOOD FAN
MOTOR, THE FAN MOTOR CURRENT SENSOR MUST BE RESET BY THE ELECTRICAL CONTRACTOR AS
FOLLOWS: ADJUST UNDERCURRENT POTENTIOMETER TO MINIMUM (CLOCKWISE IS MAXIMUM.) APPLY
CURRENT ONCE CURRENT IS STABILIZED. INCREASE UNDERCURENCENT OPTO UNTIL RED LED LIGHTS.
WITHIN SEVEN SECONDS TURN DOWN UNTIL RED LIGHT TURNS OFF. IF A LIGHT REMAINS ON FOR
MORE THAN TEN SECONDS, DISCONNECT SUPPLY VOLTAGE TO RESET. SEE MANIFACTURERS
OPERATION—INSTALLATION INSTRUCTIONS THAT SHIP WITH THE FAN, WITH LIMITED BUILDING
PRESSURE. THE ±10% TOLERANCE IS NOT ACCEPTABLE. SET CFM AS SPECIFIED. ENSURE THAT
EXHAUST FAN PULLEY IS ADJUSTED FOR PROPER ALIGNMENT.

Shane R. Hamilton P.E. 1717 N. Howard Avenue Tampa, FL 33607 (813) 251-6848

F,	AN SC	HEDULE		
TAG		EF-1	EF-2	EF-3
MANUFACTURER		COOK	COOK	COOK
MODEL		100 CPS-BK	100 CPS-BK	100C10DH
LOCATION		ROOF	ROOF	ROOF
AREA SERVED		BROILER	FRYERS	RESTROOM
CFM		1200*	885*	300
STATIC PRESSURE, "WG		0.75"	0.6"	.25
FAN HORSEPOWER		(VERIFY)	(VERIFY)	1/25
FAN RPM		(VERIFY)	(VERIFY)	983
DRIVE		BELT	BELT	DIRECT
ELECTRICAL REQ. V/ø/HZ		208-230/1/60	208-230/1/60	120/1/60
ROOF OPENING, INCHES		22X22	22X22	13.5X13.5
ROOF CURB		YES	YES	YES
BACKDRAFT DAMPER		NO	NO	YES
BIRDSCREEN		NO	NO	YES
GREASE TROUGH		YES	YES	NO
INTERLOCK		YES	YES	NO

PACKAGE ROOFTOP UN	IIT SCHEDULE (RTU-1,2,3,4
TAG	RTU-1,4	RTU-2,3
MANUFACTURER	CARRIER	CARRIER
MODEL	48HCED08 (7.5 TON)	48HCEA06 (5 TON)
LOCATION, CURB DIMENSIONS	ROOF, 78" X 50"	ROOF, 67" X 37"
TYPE OF HEAT	NATURAL GAS	NATURAL GAS
TOTAL COOLING CAPACITY, MBTU/HR	95.2	61.9
SENSIBLE COOLING CAPACITY, MBTU/HR	71.0	47.7
ENTERING AIR CONDITIONS, DB'F/WB'F	80/67	80/67
AMBIENT AIR DB TEMPERATURE, *F	95	95
SUPPLY AIR, CFM	3000	2000
OUTSIDE AIR, CFM	SEE SCHEDULE	SEE SCHEDULE
EXTERNAL STATIC PRESSURE, "WG	0.75	0.75
BHP - MEDIUM STATIC MOTOR	2.4	2.24
E.E.R./S.E.E.R.	12.0	15.2 (S.E.E.R.)
GAS INPUT MBTU/HR	120/180	82/115
GAS OUTPUT MBTU/HR	98/148	66/93
UNIT WEIGHT, LBS.	1100	750
ELECTRICAL REQUIREMENT, V/PHASE/HZ	208-230/3/60	208-230/3/60
MINIMUM CIRCUIT AMPERAGE	38.8	26.5
MAXIMUM OVER CURRENT PROTECTION	50	40
ACCESSORIES:	IFF	

. 100% ECONOMISER WITH BAROMETRIC RELIEF . NCA PLENUMIZED CURB. TO ORDER CALL TOLL—FREE (877) 530—0078. . 1 YEAR COMPLETE PARTS & LABOR WARRANTY + ADDITIONAL 4 YEAR PARTS WARRANTY ON COMPRESSORS . SMOKE DETECTOR TO SHUT DOWN RESPECTIVE FAN AND SEND A SIGNAL TO THE AV ALARM

4. SMORE DELECTION TO STILL DOWN RESPECTIVE FAIR AND STILL OF SIGNAL TO THE REPORT OF THE REPORT OF THE REPORT OF THE PRIMARY PAN NOTE: COORDINATE RTU PLACEMENT ON SITE PRIOR TO SETTING EQUIPMENT. IF ADJUSTMENT IS NECESSARY, MAINTAIN FRESH AIR INTAKE CLEARANCES.

DRAWING INFORMATION DATE DESCRIPTION
05-13-18 FOR CONSTRUCTION

 $N \cdot C \cdot A$ CONSULTANTS / GROUP

4585 140TH AVE. NORTH, SUITE #1001 CLEARWATER, FLORIDA PHONE: (877) 530-0078 CALL NCA MARKETING FOR PRICING NCA JOB# 18-576

ATTENTION GENERAL CONTRACTOR: "RE-ENGINEERING" DEVAITORS FROM THE AND REQUIRED HAZ EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND DEVAILED SUBSTITUTIONS OF ALTERATIONS WILL VOID THE SIGNATURE AND HEAVE WOLATORS RESPONSIBLE FOR RESUBMISSION OF COMPANIONS.

CONTRACTORS NOTES

3. ALL AIR CONDENING UNIT CHRE CONSULTANTS.

BETWEEN THE ROOF DECK AND THE CURB AS NEEDED

SHIMS SHALL BE R-6, U.L. LISTED, CLASSIFIED AS A CLASS 1 AIR DUCT, AND

LUDING ANY EXPO

L BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.

K SHALL BE FABRICATED AND INSTALLED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST

INLESS OTHERWISE NOTED, EVERY SUPPLY TAP COLLAR SHALL HAVE A LOCKING MANUAL VOLUME

CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT

12. THE HVAC CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL EQUIPMENT AND AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE AIR CONDITIONING UNITS. 13. UPON COMPLETION OF PROJECT THE HVAC CONTRACTOR SHALL HIRE AN AA.B.C. OR N.E.B.B. CERTIFIED, INDEPENDENT TEST AND BALANCE COMPANY TO CONDUCT A COMPLETE, CERTIFIED TEST AND BALANCE OF ALL HVAC EQUIPMENT. PROVIDE A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO AMOUNTS INDICATED ON THE FLOOR PLANS AND SCHEDULES.

14. ALL FANS SHALL BE U.L. LISTED.

15. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS OF THE EXHAUST HOOD AND EF-1 FROM MOST RECENT KITCHEN EQUIPMENT PLANS ON SITE. THIS IS TO ENSURE NO OFFSETS IN EXHAUST DUCTWORK.

16. HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING SENSORS, THERMOSTATS, AUDIO-VISUAL ANNUNCIATORS, ROOF-TOP UNITS, SMOKE DETECTORS, CONTACTOR PANEL, AND CONTROL PANEL.

GENERAL CONTRACTOR.

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. HOODS MUST BE STORED IN THE KITCHEN.

MATERIALS WHICH ARRIVE AT THE JOB SITE. HOODS MUST BE STORED IN THE KITCHEN.

2. IT IS VERY IMPORTANT THAT ACQUARME MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENING TO ENSURE THAT NO OFFSETS ARE REQUIRED IN THE EXHAUST DUCTMORK FROM THE KITCHEN HOOD. COORDINATE ROOF OPENINGS WITH HE KITCHEN EQUIPMENT PLAN AND EXHAUST HOOD PLANS, OBTAIN THE CORRECT PLANS FROM THE KITCHEN EQUIPMENT SUPPLIER.

3. RTU ROOF OPENING SIZES AND ROOF CURES ARE BASED ON EQUIPMENT SHOWN, IF OTHER EQUIPMENT IS USED. VERIEY ROOF OPENING REQUIREMENTS, MAKE PENETRATION AS NEEDED FOR INSTALLATION OF NEW CURB AND RTU. COORDINATE ON SITE WITH HYAC CONTRACTOR. ENSURE THAT ROOFING MATERIAL DOES NOT COVER THE TOP OF ANY HYAC COUPMENT CURB.

4. ANY FRAMING REQUIRED FOR HVAC WORK SHALL BE BY THE GENERAL CONTRACTOR.

5. GENERAL CONTRACTOR IS TO PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER IBC AND LOCAL CODES.

ANY EXPOSED HVAC WORK IN THE DINING ROOM IS TO BE PRIMED AND PAINTED BY THE GENERAL CONTRACTOR.

. GENERAL CONTRACTOR IS TO ENSURE THAT THE ROOF TRUSSES CLOSEST TO THE EXHAUST RISERS FOR 7. GENERAL COMMUNITARIS TO SUSTAIN THE ROOF INSUSSES CLOSES TO THE CAMUST MISCAS — WHICH BY DESIGN CANNOT BE OFFSET — WILL BE INSTALLED PLUMB. CONFIRM ON SITE WITH HVAC CONTRACTOR AND MOST—RECENT KITCHEN COUNTRACTOR LANS.

ELECTRICAL CONTRACTOR

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL PITCH POCKETS FOR POWER AND CONTROL

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL PITCH POCKETS FOR POWER AND CONTROL

WRING TO MAINTAIN 12" MINIMUM CLEARANCE FROM BACK PANEL OF AIR CONDITIONING UNITS AND EXHAUST

FANS. ELECTRICAL CONTRACTOR SHALL NOT PENETRATE BOTTOM OF RITU CURB AND EXHAUST FANS.

2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE CONTACTOR PANEL, ON—OFF PANEL, AND LOW—VOLTAGE

CONTROL WRING FOR ALL AIR CONDITIONING UNITS AND CONTROLS. COORDINATE AIR CONDITIONING AND

ELECTRICAL PLANS. VERIFY WHETHER ENERGYWISE OR SUNCOAST PANEL IS USED ON ARCH. SHEET E—S.

FOR PROJECTS WITHOUT A PANEL THE ELECTRICAL CONTRACTOR WILL INTERLOCK THE COOKING APPLIANCE

AND HYAC EQUIPMENT PER NFPAS6.

3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL HVAC EQUIPMENT

4. THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4'-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.

5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL INTERLOCK REQUIRED BY LOCAL CODE BETWEEN THE HVAC EQUIPMENT, SMOKE DETECTORS, EXHAUST FANS, AND COOKING APPLIANCES.

ELECTRICAL CONTRACTOR SHALL RUN LINE VOLTAGE FROM THE CURRENT SENSOR LOCATED IN THE GREASE EXHAUST FAN TO THE CONTACTOR PANEL LOCATED BY THE SWITCHGEAR.

7. FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUACATOR, WITH GREEN AND FOR LIGHT INDICATORS, THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUACATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETERMINE SHEEN SHEEN STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETERMINED WILL BE FOR THE PROVIDED THE STATION OF STATION OF THE STATION

FLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL PITCH POCKETS FOR CONDENSATE DRAINS/GAS PIPING FOR ALL A/C UNITS AND EXHAUST FANS. <u>PLUMBING CONTRACTOR SHALL NOT PENETRATE BOTTOM OF</u> RTU CURB.

2. THE PLUMBING CONTRACTOR TO COORDINATE PLUMBING VENT STACKS WITH OUTSIDE AIR INTAKES OF A/C UNITS. MAINTAIN 10° -0" MINIMUM CLEARANCE OR PER LOCAL CODE.

3. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-O" MINIMUM HORIZONTAL OR 3' VERTICAL CLEARANCE TO AIR INTAKES.

UPON COMMENCEMENT OF ROUGH-IN AS SCHEDULED BY NCA CONSULTANTS, THE AIR CONDITIONING CONTRACTOR IS TO REMAIN ON THE JOB SITE FULL TIME UNTIL THE ROUGH-IN IS 100% COMPLETE. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT WILL VERIFY.

UPON COMMENCEMENT OF TRIM-OUT AS SCHEDULED BY NCA CONSULTANTS, THE AIR CONDITIONING CONTRACTOR IS TO REMAIN ON THE JOB SITE FULL TIME UNTIL THE TRIM-OUT IS 100% COMPLETE. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT WILL VERIFY.

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