PACKAGED ROOF TOP UNIT SCHEDULE

UNIT SYMBOL		RTU 1 (NEW)	RTU 2 (NEW)	RTU 3 (NEW)
LOCATION		ROOF	ROOF	ROOF
BLOWER	CFM	2,000 (5-TON)	4,000 (10-TON)	4,000 (10-TON)
BLOWER	TSP (IN W.G.)	1.0"	1.0"	1.0"
COOLING	TOTAL (BTU/HR)	56,600	111,100	111,100
COOLING	SENSIBLE (BTU/HR)	44,714	86,658	86,658
COOLING	AMBIENT (F)	115	115	115
COOLING	COIL ENTERING	67 WB/80 DB	67 WB/80 DB	67 WB/80 DB
HEATING (BTU/HR)		108,000 (INPUT) / 86,000 (OUTPUT)	180,000 (INPUT) / 144,000 (OUTPUT)	180,000 (INPUT) / 144,000 (OUTPUT)
ELECTRICAL	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ
ELECTRICAL	COMPRESSOR (RLA)	(1) 16.5	(2) 13.5	(2) 13.5
ELECTRICAL	CONDENSER MOTOR (FLA)	(1) 2.4	(2) 2.4	(2) 2.4
ELECTRICAL	EVAPORATOR MOTOR (FLA)	1 HP, 4.6 FLA	2 HP, 7.5 FLA	2 HP, 7.5 FLA
ELECTRICAL	MIN. CIRCUIT AMPACITY	31.0, MOCP (HACR) = 45	46.0, MOCP (HACR) = 50	46.0, MOCP (HACR) = 50
PRICING ORDERING AND DELIVERY CONTACT: CODY JACKSON PHONE: 801-736-8904 CELL: 801-350-1563 E-MAIL: cody.jackson@lennoxind.com SUPPORT: 800-367-6285		BY LENNOX LGH060S4TU1Y DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNTING CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST, HUMIDITROL DEHUMIDIFICATION, BLOWER PROVING SWITCH, DIRTY FILTER SWITCH. OPER, WT. : 950 LBS APPROX. SEER=15.5, AFUE = 80%	BY LENNOX LGH120H4BM1Y DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNTING CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST, HUMIDITROL DEHUMIDIFICATION, BLOWER PROVING SWITCH, DIRTY FILTER SWITCH. OPER, WT. : 1550 LBS APPROX. EER=12.0, AFUE = 80%	BY LENNOX LGH120H4BM1Y DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNTING CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST, HUMIDITROL DEHUMIDIFICATION, BLOWER PROVING SWITCH, DIRTY FILTER SWITCH. OPER, WT. : 1550 LBS APPROX. EER=12.0, AFUE = 80%

ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT LENNOX REPRESENTATIVE ABOVE.
- PROVIDE 24/7 PROGRAMMABLE TYPE THERMOSTAT CAPABLE OF OPERATING UNITS; HONEYWELL TB8220U1003/U COMMERCIAL "VISION PRO"
- PROVIDE REMOTE DUCT MOUNTED TEMPERATURE SENSOR ; 12" HONEYWELL C7041B2013/U
- PROVIDE REMOTE DUCT MOUNTED HUMIDITY SENSOR KIT; LENNOX 76M31

NOTE:
1. (5 TON) AND (10 TON) ECONOMIZER INCLUDED IN ELECTRICAL TOTAL MCA PER MANUFACTURER'S LITERATURE.
2. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB.
3. LOUVERED HAIL GUARD PROTECTION FOR ALL UNITS.
4. FACTORY OPTIONS SHALL INCLUDE FACTORY INSTALLED DISCONNECTS AND CONVENIENCE OUTLETS (FIELD POWERED REFER TO ELECTRICAL DRAWING).
5. PROVIDE THRU THE BASE ELECTRICAL CONNECTION KIT #CRBTMPWR002A01 FOR ALL UNITS.
6. PROVIDE UNITS WITH HUMIDITROL DEHUMIDIFICATION OPTION.
7. PROVIDE FACTORY INSTALLED RETURN DUCT SMOKE DETECTOR. MECHANICAL CONTRACTOR SHALL ADDITIONALLY PROVIDE AND INSTALL ALL REMOTE RESETS, STROBES, & ALARMS IF REQUIRED BY CODE & INSPECTOR.
8. PROVIDE 2ND SET OF CLEAN FILTERS IN ALL UNITS AT DAY OF TURNOVER TO PANDA OPERATIONS.
9. PROVIDE FACTORY INSTALLED E-COATED CONDENSER, EVAPORATOR, AND HUMIDITROL COILS FOR CORROSION PROTECTION.
10. PROVIDE WIND RATED CURBS AND HOLD DOWN BRACKETS.
11. PROVIDE 5 YEAR MANUFACTURER WARRANTY.

EXHAUST FAN SCHEDULE

FAN NO.		EF 1	EF 2	EF 3
LOCATION		ROOF	ROOF	ROOF
AREA SERVED		KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	RESTROOMS
FAN DUTY		AIR EXHAUST	AIR EXHAUST	AIR EXHAUST
FAN TYPE		CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN
FAN ARRANGEMENT		UPBLAST	UPBLAST	DOWNBLAST
MIN. WHEEL DIAMETER		-	-	-
PERFORMANCE	C.F.M.	3,450	3,450	450
PERFORMANCE	T.S.P.	1.25"	1.25"	0.25"
PERFORMANCE	B.H.P.	1.38	1.38	0.085
PERFORMANCE	FAN R.P.M.	1223	1223	1128
MOTOR	MOTOR H.P.	2.0	2.0	0.25
MOTOR	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
MOTOR	MOTOR R.P.M.	1725	1725	-
MOTOR	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	OPEN DRIP-PROOF
ACCESSORIES		1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS. 3. PROVIDE WIND RATED CURBS AND HOLD DOWN BRACKETS.	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS. 3. PROVIDE WIND RATED CURBS AND HOLD DOWN BRACKETS.	1. ROOF CURB 2. BACKDRAFT DAMPER 3. PROVIDE WIND RATED CURBS AND HOLD DOWN BRACKETS.
MANUFACTURER		CAPTIVEAIRE MODEL: NCA16FA WT. 200 LBS	CAPTIVEAIRE MODEL: NCA16FA WT. 200 LBS	CAPTIVEAIRE MODEL: DD7FA WT. 100 LBS

NOTES:
1. KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
2. FOR WIRING DIAGRAM SEE 5/M-501

HVAC CONTROL SETTINGS

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

THERMOSTAT: LENNOX COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS.

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.

FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

OCCUPIED PERIOD: 9:00AM TO 12:00 PM
UNOCCUPIED PERIOD: 12:00 PM TO 9:00 AM

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):
COOLING OCCUPIED: 75°F.
COOLING UNOCCUPIED: 85°F.
HEATING OCCUPIED: 68°F.
HEATING UNOCCUPIED: 50°F.

NOTES:
1. DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.
2. ALL THERMOSTATS WILL BE LABELED WITH RTU # AND ROOM LOCATION WITH BLACK LETTERS ON CLEAR TAPE. (i.e. RTU-1 KITCHEN)

AIR CURTAIN SCHEDULE

EQUIP.	MFR/MODEL	DESCRIPTION
M8A	MARS STD242-1U-OB	UNHEATED AIR CURTAIN (SERVICE DOOR). 115/1/60 WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS
M9A	QUICK-SERV CF-25	AIR CURTAIN (WINDOW HEATED). 208/1/60, 20 AMP WEIGHT 30 LBS REFERENCE ARCHITECTURAL WINDOW SCHEDULE FOR HEATED OR NON-HEATED UNIT. PROVIDED BY GC.

NOTES:
INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

MUA CONTROL SETTINGS

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.

PROGRAMMED SETPOINTS :
COOLING : 85°F.
HEATING : 55°F.

MECHANICAL SPECIFICATIONS

1. WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
2. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
3. CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
4. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
5. DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525. UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
6. INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
7. SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
8. GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE FABRICATED BY WELDED JOINT CONSTRUCTION OF 16 GAUGE WELDED STEEL OR 18 GAUGE STAINLESS STEEL. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. ALL ELBOWS SHALL BE LONG RADIUS. GREASE DUCT SHALL BE INSTALLED EITHER IN A RATED ENCLOSURE PROVIDED BY THE GENERAL CONTRACTOR OR WRAPPED WITH FIREMASTER GREASE DUCT WRAP.
9. DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIM/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
10. FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. MAXIMUM ALLOWABLE LENGTH TO BE 4 FEET. SEE DETAIL #6 ON SHEET M-501.
11. PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
12. ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
13. AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
14. KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
15. TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMS, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.
17. ALL ROOF TOP EQUIPMENT TO BE TAGGED WITH 2-1/2" HIGH PERMANENT LETTERS TO IDENTIFY EQUIPMENT TAG NUMBER. SEE ADDITIONAL NOTE ON M-100.

MAKE-UP AIR UNIT SCHEDULE

MARK	MFR/ MODEL	LOCATION	SERVICE AREA	GAS HEAT	TYPE	COOLING	CFM	ESP	MOTOR	REMARKS
MA-1	CAPTIVEAIRE A3-G18	ROOF-TOP	KITCHEN HOOD #1 & #2	INPUT: 409,003 BTHU OUTPUT: 376,283	DIRECT FIRE GAS HEATED, DX COOLED SUPPLY, DOWN DISCHARGE	DUAL CIRCUIT DX COIL	5,520	0.75"	5 HP 208V/3PH/60HZ	GAS FIRED MAKEUP AIR UNIT W/ 38AUD 15 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNIT. REFER TO SHEET M-401 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE. FREIGHT INCLUDED. NOTE: FACTORY OPTIONS SHALL INCLUDE NONCORROSIVE COATING AND HAIL GUARD PROTECTION.

DIFFUSER & GRILLE SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS
A	PRICE	PDMC3-R6	PERFORATED MODULAR CORE	B-12 WHITE	14"Ø	24" x 24"	LAY-IN T-BAR	< 30	ROUND NECK BUTTERFLY VOLUME DAMPER
B	PRICE	PDMC3-AFI	PERFORATED MODULAR CORE	B-12 WHITE	12"Ø	16" x 16"	SURFACE	< 30	ROUND NECK BUTTERFLY VOLUME DAMPER
C	PRICE	PDMC3-AFI	PERFORATED MODULAR CORE	B-12 WHITE	9" x 9"	12" x 12"	SURFACE	< 30	SQ. TO RD. DUCT ADAPTER FOR DIA. AS SHOWN, OPPOSED BLADE DAMPER
D	PRICE	PDDR3	PERFORATED RETURN	B-12 WHITE	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	
E	PRICE	PDDR3-AFI	PERFORATED RETURN	B-12 WHITE	10" DIA.	12" x 12"	SURFACE		WITH VOLUME CONTROLLER
F	PRICE	PDDR3	PERFORATED RETURN	PA-28 BRONZE	22"X22" & 16"Ø	24" x 24"	LAY-IN T-BAR	< 35	SEE PLAN FOR NOM NECK SIZE
G	PRICE	AS210	LINEAR SLOT	B-12 WHITE	2@6" OVAL	1 SLOT	SURFACE	< 35	SEE PLAN FOR LENGTH, PROVIDE WITH FACTORY PLENUM
H	PRICE	PDMC3-R6	PERFORATED MODULAR CORE	PA-28 BRONZE	14" x 14"	24" x 24"	LAY-IN T-BAR	< 30	SQ. TO RD. DUCT ADAPTER FOR DIA. AS SHOWN
J	PRICE	PDMC3-AFI	PERFORATED MODULAR CORE	B-12 WHITE	[illegible]	24" x 24"	LAY-IN T-BAR	< 30	OPPOSED BLADE DAMPER

NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES.
HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC.
PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL ronc@thermairsystems.com

AIR BALANCE SCHEDULE

ITEM	SUPPLY AIR	RETURN AIR	MAKE-UP AIR	EXHAUST
MAU1	0	0	+5,520	0
EF-1, EF-2	0	[illegible]	0	-3,450 x 2
RTU-1	+2,000	-1,500	500	0
RTU-2, RTU-3	+4,000, +4000	-3,250, -3,250	2@750 EA	0
EF-3	[illegible]	-	-	-450
TOTAL	+10,000	-8,000	+7,520	-7,350

BUILDING PRESSURE = +170 CFM

BALANCE TOLERANCES AS FOLLOWS:
KITCHEN EXHAUST HOODS: 0% TO +10%
OUTSIDE AIR: 0% TO +10%
SUPPLY & RETURN DIFFUSERS: ±10%
TOILET EXHAUST: ±10%
BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS.
KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER

OSA VENTILATION CALCULATION-IMC

AREA TYPE	TOTAL AREA (FT^2)	OCCUPANCY DENSITY (PEOPLE/FT^2)	TOTAL OCCUPANTS	OSA REQ.'D PER SQ.FT. (CFM)	OSA REQ.'D PER PERSON (CFM)	OSA REQ.'D FOR THIS OCCUPANCY CLASSIFICATION (CFM)
HALLWAYS	41	-	-	0.05	-	3
STORAGE	14	-	-	0.15	-	2
KITCHEN	925	20/1,000	18	-	15	270
DINING ROOM	823	100/1,000	83	-	20	1660

VENTILATION SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY SECTION 403. SAID REPORT MUST BE PRESENTED TO THE ADMINISTRATIVE AUTHORITY.

TOTAL OSA REQUIRED (CFM)	1935
TOTAL OSA PROVIDED (CFM)	2000

MUA CALCULATIONS

# OF DAYS >85 DEGREES F	MORE THAN 14 DAYS. COOLED UNIT REQUIRED.
# OF DAYS <60 DEGREES F	MORE THAN 14 DAYS. HEATED UNIT REQUIRED.
* IF # OF DAYS EXCEEDS 14 THEN HEATED AND/OR COOLING IS TO BE PROVIDED	

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	CLG	CEILING
	DN	DOWN
☒, ☒, ◿		DUCT SECTIONS (SUPPLY, EXHAUST, RETURN)
		FLEXIBLE DUCT
	MVD	MANUAL VOLUME DAMPER
	OBD	OPPOSED BLADE DAMPER
	MFR	MANUFACTURER
	MIN	MINIMUM
	OSA	OUTSIDE AIR
Φ		ROUND RIGID DUCTWORK
	TSP	TOTAL STATIC PRESSURE
		TURNING VANES
1		CONSTRUCTION NOTES
EF 1		MECHANICAL EQUIPMENT DESIGNATION
S		SMOKE DETECTOR
T 1		THERMOSTAT / UNIT
R 1		REMOTE TEMPERATURE SENSOR / UNIT
H 1		REMOTE HUMIDITY SENSOR / UNIT

PANDA EXPRESS CHINESE KITCHEN

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REVISIONS:

ISSUE DATE:

1st	ISSUE FOR BUILDING PERMIT	08-16-18
2nd	ISSUE FOR BID	11-29-18

DRAWN BY: RR

PANDA PROJECT #: S8-19-D6558
ARCH PROJECT #: 1804

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GULF BREEZE, FL
2200 TRUE - R1 - DAB 12

M-000

MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES

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