RO	OFTOP U	INIT S	CHE	DULE											
					COOLING					HEATING	ja	ELECTRIC	AL		
	AREA		O.A.	E.S.P.	CAPACITY (BTUH)		E.	A.T.	AMBIENT	CAPAC	ITY (MBH)			MAX	STANDARD OF
MARK	SERVED	CFM	CFM	(in w.c.)	SENSIBLE	SENSIBLE TOTAL D		WB	(非)	INPUT	OUTPUT	VOLTAGE	MCA	FuSE	PERFORMANCE
RTU-1	MEETING 1	2400	1000	Ø.5	53,600	72,000	80	67	95	120	те	208/3/60	32.7	50	TRANE YSC-Ø72
RTU-2	MEETING 2	2400	1000	06	53,600	72,000	80	67	95	120	re	208/3/60	32.7	50	TRANE YSC-Ø72
RTU-3	MEETING 3	2400	1000	Ø5	53,600	72,000	80	67	95	120	re	208/3/60	32.7	50	TRANE YSC-Ø72
RTU-4	PREFUNCTION	5000	1000	08	106,000	149,000	80	67	95	150	122	208/3/60	63	80	TRANE YCD-150
RTU-5	BOARD ROOM	1200	300	Ø5	26,200	37,400	80	67	95	80	64	208/3/60	18.6	25	TRANE YSC-036
RTU-6	BREAKOUT 2	1600	500	Ø5	37,900	49,200	80	67	95	80	64	208/3/60	23.9	35	TRANE YSC-048
RTU-7	LOBBY	3600	500	06	72,903	99,815	76	65	95	135	105	208/3/60	59.0	70	TRANE YSC-120
RTU-8	B-0-H	2000	100	0.8	48,200	63,100	80	67	95	80	64	208/3/60	31.5	50	TRANE YSC-060
RTU-9	ELEVATOR	2400	25Ø	08	53,600	<b>1</b> 2,000	80	67	95	120	97	208/3/60	32.7	50	TRANE YSC-Ø72

1. ALL UNITS SHALL BE PROVIDED WITH AUTO C/O ELECTRONIC THERMOSTAT

WITH LED READOUT AND LOCKING COVER. 2. THERMOSTATS SHALL PROVIDE (2) STAGES OF COOLING

WHERE APPLICABLE. 3. THERMOSTATS SHALL BE LOCATED IN A SECURE LOCATION WITH A REMOTE

SENSOR IN THE SPACE AR RTU-1 & 9. 4. ALL UNITS 15 TONS AND LARGER SHALL HAVE MULTIPLE COMPRESSORS. 5. PROVIDE A MANUAL OUTSIDE AIR DAMPER WITH WEATHERHOOD AT RTU-5, 6, 7, 8 4 9. 6. PROVIDE A MOTORIZED OUTSIDE AIR DAMPER WITH WEATHERHOOD AT RTU-1, 2, 3 & 4.

1. CONTROL MOTORIZED OUTSIDE AIR DAMPER WITH CARBON MONOXIDE SENSOR LOCATED IN THE RETURN DUCT. 8. ALL UNITS SHALL HAVE TIMED OFF CONTROL.

9. ALL UNITS SHALL HAVE A CRANKCASE HEATER. 10. ALL UNITS SHALL HAVE (2) SETS OF FILTERS.

11. ALL UNITS SHALL BE INSTALLED ON 14" HIGH ROOF CURBS. 12. ALL UNITS SHALL HAVE HINGED ACCESS DOORS WITH HAND OPERATED FASTENERS.

13. ALL UNITS SHALL HAVE LOW AMBIENT CONTROLS FOR OPERATION DOWN TO Ø DEGREES. 14. ALL UNITS SHALL HAVE WARRANTIES AS FOLLOWS: PARTS - 1 YEAR, COMPRESSORS -5 YEARS, HEAT EXCHANGER - 10 YEARS

FOR SHUTDOWN IN ACCORDANCE WITH LOCAL CODE AND NFPA. 16. TOTAL OA AT RTU-1, 2, 3 15 1000 CFM, 500 CFM AT UNIT AND

15. ALL UNITS SHALL HAVE A SMOKE DETECTOR IN THE UNITS RETURN

17. TOTAL OA AT RTU-5, 6 16 500 CFM, 250 CFM AT UNIT AND

250 CFM FROM MAU-1.

AIR	HANDLI	NG	UNI	T SC	CHEDU	JLE										
					COOLING					ELECTRICA	L DATA					
MARK	LOCATION	CFM	O.A. CFM	E.S.P.	CAPACITY	(BTUH)	ENT. A	AIR .	AMBIENT	<b>∀O</b> LTAGE	HEATER	Mo	CA	MAX	. FUSE	STANDARD OF PERFORMANCE
			<b>J</b>		SENSIBLE	TOTAL	DB	WB	AITIDIENT	FOLIAGE	(WATTS)	CKT 1	CKT 2	CKT I	CKT 2	
AHU-1	LAUNDRY	2000	200	0.60	42500	56500	80	67	95	208/1/60	11530	48	26	50	3Ø	TRANE TWE-063
AHU-2	KITCHEN	3000	500	0.60	65500	30200	80	67	95	208/3/60	18710	72	82	80	90	TRANE TWE-090
AHU-3	RESTAURANT	4000	450	0.50	87400	121900	80	67	95	208/3/60	26200	98	113	100	125	TRANE TWE-120
AHU-4	ADMIN.	1200	100	0.50	27800	36200	80	67	95	208/3/60	7200	37	××	40	××	TRANE TWE-040
AHU-5	EXERCISE	1200	200	0.50	27800	36200	80	67	95	208/3/60	7200	37	××	40	××	TRANE TWE-040
АНИ-6	GUEST SIXTH	600	Ø	Ø.25	8310	10510	75	61	98	208/1/60	3000	15	××	15	××	FIRST CO 19HX-3
I. PROVII	DE AUTO C/O EL	ECTRON	IC THER	MOSTAT	WITH LOCK!	NG COVER	•	•	•				•	•		

2. THERMOSTAT SHALL PROVIDE 2 STAGE COOLING WHERE APPLICABLE.

3. THERMOSTAT SHALL BE LOCATED IN A SECURE LOCATION, WITH A REMOTE SENSOR IN THE SPACE AT AHU-3 & 5.

4. ALL UNITS 1.5 TONS AND LARGER SHALL HAVE MULTIPLE COMPRESSORS.

5. PROVIDE (2) SETS OF FILTERS WITH EACH SYSTEM. 6. PROVIDE A SMOKE DETECTOR (BY THE ELECTRIC CONTRACTOR) IN THE RETURN AIR, (PRIOR TO ANY MIXING OF FILTERS), FOR UNIT

SHUTDOWN IN ACCORDANCE WITH CODE AT AHU-1, 2, 3, 4 \$ 5.

1. EXTEND 1 1/2" TRAPPED CONDENSATE TO OUTLET BY PLUMBER. 8. EXTEND TYPE L ACR COPPER TO CONDENSING UNIT. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

9. THERMOSTAT AT AHU-6 SHALL BE INNOOM E4 SMARTSTAT. IO. PROVIDE MANUFACTURERS STANDARD RETURN/ACCESS PANEL BELOW AHU-6, PAINT PER ACHITECTS INSTRUCTIONS.

HEA	T PUN	MP UI	VIT S	CHEDU	JLE			
	COOLING			EFFICIENCY	ELECTRIC	CAL DA	ATA	
MARK	CAPACITY	r (BTUH)		SEER	<b>YOLTAGE</b>	MCA	MAX. FUSE	STANDARD OF
	SENSIBLE	TOTAL	AMBIENT	SEER	VOLTAGE	PICA	MAX. FUSE	PERFORMANCE
CU-1	42500	56500	95	13.00	208/3/60	24	40	TRANE 2TWA3060
CU-2	65500				208/3/60	37.1	60	TRANE TWA090
CU-3	87400	121900	95	13.00	208/3/60	48.1	80	TRANE TWAIZO
CU-4	27800	36200	95	14.50	208/3/60	Π	25	TRANE 2TWA3036
CU-5	27800 36200 95			14.50	208/3/60	П	25	TRANE 2TWA3036
CU-6	8310	10510	95	13.00	208/1/60	8	15	TRANE 2TWB3Ø18

MOUNT UNITS ON ROOF ON 4' THICK CONCRETE PAD WITH CHAMFERED EDGES, SLOPE 1/8' PER FOOT AWAY FROM BUILDING.

. MOUNT UNITS ON ROOF ON PYC EQUIPMENT PAD. PROVIDE WALK TREAD BELOW PAD. 3. CONNECT TO INDOOR UNIT WITH TYPE 'L' ACR COPPER, SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS

4. PROVIDE ALL REFRIGERATION ACCESSORIES AS REQUIRED. 5. ALL UNITS SHALL HAVE CRANKCASE HEATERS.

AIR HANDLING UNIT SCHEDULE

SUITE SHOP CONCEALED 246 0 NA

5. PROVIDE REMOTE WIRELESS THERMOSTAT WITH LOSS PREVENTION CHAIN.

6. MAX. REFRIGERANT LINE LENGTH IS 66 FEET INCLUDING A MAXIMUM PIPING RISE OF 49 FEET.

7. COOLING AND HEATING CAPACITIES ARE NET ACCOUNTING FOR BOTH INDOOR AND OUTDOOR UNITS.

LOCATION

				T.S.P.		ELECT	RICAL	MAX.	STANDARD OF	
MARK	LOCATION	TYPE	CFM	(in. w.c.)	RPM	YOLTAGE	HP/ (W)	SONES	PERFORMANCE	REMARKS
F-1	HOOD EXHAUST	UTILITY SET	4790	1.25@	××	208/3/60	2	18	GREENHECK SWB-120	3, 4, 6, 7, 9, 10, 11, 20, 28, 29
F-2	WATER HEATER	WALL PROP.	750	Ø.125	1550	115/1/60	1/12	6	GREENHECK 991-10	3, 13, 18, 19
F-3	MEETING	ROOF CENT.	150	Ø.125	985	115/1/60	1/3Ø	1	GREENHECK G-070-D	1, 3, 14, 15, 16, 17
F-4	MEETING	ROOF CENT.	150	Ø.125	985	115/1/60	1/3Ø	1	GREENHECK G-070-D	1, 3, 14, 15, 16, 17
F-5	WATER HEATER	IN-LINE	500	Ø25Ø	1500	115/1/60	1/10	8	GREENHECK SQ-90-D	3, 13, 20, 24, 25
F-6	FIRE	CLG. CENT.	200	Ø.125	846	115/1/60	(83)	2	GREENHECK SP-A250	3, 13, 15, 20, 21
F-7	LAUNDRY	CLG. CENT.	75	Ø.375	767	115/1/60	(80)	2	GREENHECK SP-BIIØ	3, 16, 20, 22
F-8	HOOD MAU	IN-LINE	3360	0.625	1089	208/3/60	1	15	GREENHECK BSQ-180-10	3, 4, 20, 23, 24, 25
F-9	DISHWASHER	WALL CENT.	900	Ø.875	1662	115/1/60	1/4	10	GREENHECK CW-101-A	3, 14, 15, 16, 26, 27
F-10	TOILETS	ROOF CENT.	725	Ø.375	181	115/1/60	1/4	5	GREENHECK GB-141-4	1, 3, 14, 22
F-11	EXERCISE	WALL CENT.	300	Ø.125	1460	115/1/60	1/3Ø	5	GREENHECK CW-070-D	3, 14, 16, 22
F-12	POOL	WALL CENT.	500	Ø25Ø	1250	115/1/60	1/25	6	GREENHECK CW-090-G	3, 14, 16, 22
F-13	POOL EQUIPMENT	FILTER SUPPLY	650	Ø.125	378	115/1/60	1/4	2	GREENHECK RSFP-100-4	1, 3, 13, 19
F-14	POOL MECHANICAL	FILTER SUPPLY	650	Ø.125	378	115/1/60	1/4	2	GREENHECK RSFP-100-4	1, 3, 13, 19
F-A	GUEST ROOM	CLG. CENT.	35	Ø.125	435	115/1/60	(45)	1	GREENHECK SP-B70	3, 12, 15, 16, 20
F-B	TOWER	ROOF CENT.	125	Ø25Ø	1396	115/1/60	1/3Ø	4	GREENHECK G-065-D	1, 3, 14, 16, 22
F-C	TOWER	ROOF CENT.	25Ø	Ø25Ø	1278	115/1/60	1/3Ø	4	GREENHECK G-070-D	1, 3, 14, 16, 22
F-Y	YENDING	CLG. CENT.	150	0.100	1030	115/1/60	(129)	4	GREENHECK SP-9	3, 13, 15, 16, 20

DUCT FI	URNACE SCHEDULE			
1. ROOF CURB 2. VENTED EXTENSION 3. DISCONNECT 4. STARTER 5. HINGE KIT 6. NON-STICK WHEEL	9. DRAIN/GREASE TRAP 10. UL-762 LISTED 11. CONTROL WITH SWITCH AT HOOD	13. CONTROL WITH THERMOSTAT 14. BIRDSCREEN 15. BACKDRAFT DAMPER 16. SPEED CONTROL 17. INTERLOCK WITH MEETING LIGHTS 18. WALL COLLAR	19. MOTORIZED DAMPER 20. NEOPRENE 1SOLATORS 21. WALL DISCHARGE' 22. CONTINUOUS OPERATION 23. INTERLOCK WITH F-1 24. INSULATED HOUSING	25. FILTER (2") BOX 26. INTERLOCK WITH DISHWASHER 21. 5 MINUTE DELAY TO OFF 28. EQUIPMENT RAILS 29. 40" HIGH DISCHARGE

SENSIBLE TOTAL DB WB

*8500* | 80 | 67

COOLING

6000

E.S.P. | CAPACITY (BTUH) | ENT. AIR

MARK	APPLICATION	TYPE	THROW	CEILING	CONSTRUCTION	FINISH	STANDARD OF PERFORMANCE	REMARKS
SII	SUPPLY	LOUVER FACE	1-W	LAY-IN	ALUMINUM	WHITE	METALAIRE 5000	1, 2
<b>S</b> 12	SUPPLY	LOUVER FACE	2-W	LAY-IN	ALUMINUM	WHITE	METALAIRE 5000	1, 2
<del>5</del> 13	SUPPLY	LOUVER FACE	3-W	LAY-IN	ALUMINUM	WHITE	METALAIRE 5000	1, 2
<b>S</b> 14	SUPPLY	LOUYER FACE	4-W	LAY-IN	ALUMINUM	WHITE	METALAIRE 5000	1, 2
<b>S</b> 21	SUPPLY	LOUVER FACE	1-W	SHEETROCK	ALUMINUM	WHITE	METALAIRE 5000	1, 2, 4
<del>5</del> 22	SUPPLY	LOUVER FACE	2-W	SHEETROCK	ALUMINUM	WHITE	METALAIRE 5000	1, 2, 4
<del>5</del> 23	SUPPLY	LOUYER FACE	3-W	SHEETROCK	ALUMINUM	WHITE	METALAIRE 5000	1, 2, 4
524	SUPPLY	LOUYER FACE	4-W	SHEETROCK	ALUMINUM	WHITE	METALAIRE 5000	1, 2, 4
SW	SUPPLY	DOUBLE DEFL	4-W	SIDEWALL	ALUMINUM	WHITE	METALAIRE V4004D	1
SL	SUPPLY	LINEAR	15 DEG	SHEETROCK	ALUMINUM	ALUMINUM	METALAIRE 2000	1, 2
ST	SUPPLY	THERMAFUSER	4-W	LAY-IN	ALUMINUM	WHITE	ACUTHERM TF-HC	1, 2, 3
RI	RETURN	FIXED BLADE		LAY-IN	ALUMINUM	WHITE	METALAIRE RH-TB	2
R2	RETURN	FIXED BLADE		SHEETROCK	ALUMINUM	WHITE	METALAIRE RH	2, 4
R3	RETURN	LINEAR		SHEETROCK	ALUMINUM	WHITE	METALAIRE 2000	2
Εl	EXHAUST	FIXED BLADE		LAY-IN	ALUMINUM	WHITE	METALAIRE RH-TB	1, 2
E2	EXHAUST	FIXED BLADE		SHEETROCK	ALUMINUM	WHITE	METALAIRE RHD	1, 2, 4
D.G.	DOOR GRILLE	DBL FLANGE			ALUMINUM	ALUMINUM	METALAIRE DG-DF	-
L <i>O</i> UVER	INTAKE/EXH	DRAINABLE			ALUMINUM	PER ARCH	GREENHECK ESD-2002	-

OPPOSED BLADE DAMPER 4. PLASTER FRAME 2. VERIFY / COORDINATE COMPATIBILITY OF AIR 5. ALL DEVICES LISTED MAY NOT BE USED DISTRIBUTION WITH CEILING PRIOR TO

AIR DISTRIBUTION SCHEDULE

3. CONTROL WITH WALL MOUNTED THERMOSTAT

GAS	DUC	T FURNACE S	CHE	DULE								
	AREA		GAS CA	APACITY (	MBH)	CONNECTION	ONS (in)	)	ELECTRICA	L DATA	STANDARD OF	
MARK	SERVED											
GDF-I	POOL	SEPARATED COMBUSTION	150	120	80%	1/2	6	6	115/1/60	1.9	REZNOR SC-150	

1. STAINLESS STEEL HEAT EXCHANGER

2. STAINLESS STEEL BURNERS 3. SPARK IGNITED INTERMITTENT SAFETY PILOT WITH ELECTRONIC FLAME SUPERVISION

4. ELECTRONIC MODULATED GAS CONTROLS. 5. VERTICAL/HORIZONTAL VENT TERMINAL/COMBUSTION AIR INLET ASSEMBLY

6 | 115/1/60 | 1.9 | REZNOR SC-200

6. HIGH CFM UNIT

HANICAL	<b>SPECIFICATIONS</b>	

15000 GENERAL

- A. A PERMIT FOR ALL MECHANICAL WORK SHALL BE OBTAINED BY A CONTRACTOR LICENSED IN BOSSIER CITY, LA. AND ALL WORK SHALL BE PERFORMED BY THIS
- B. COOPERATE WITH OTHER TRADES IN ORDER THAT ALL SYSTEMS MAY BE INSTALLED IN
- C. ALL EQUIPMENT SHALL BE FURNISHED, INSTALLED AND ADJUSTED COMPLETE AND READY

15047 IDENTIFICATION

- A. ALL MECHANICAL EQUIPMENT SHALL BE IDENTIFIED WITH BLACK BAKELITE TAGS WITH 3/4" HIGH WHITE APPEARING LETTERS.
- B. ALL GAS PIPING SHALL BE PAINTED YELLOW AND TAGGED WITH LABELS AS MANUFACTURED BY SETON AT 10 FT INTERVALS

15060 PIPING

- A. ALL PIPE SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS. B. PROVIDE DIELECTRIC UNIONS AT CONNECTIONS BETWEEN DISSIMILAR METALS. C. REFRIGERANT PIPING SHALL BE ACR COPPER WITH WROUGHT COPPER FITTINGS CONNECTED WITH SILVER SOLDER.
- D. COOLING CONDENSATE DRIP PIPING SHALL BE TYPE "M" COPPER OR PVC PIPE. E. GAS PIPING SHALL BE SCHEDULE 40 STEEL.
- 15090 HANGERS AND SUPPORTS A. WHERE PIPES ARE SUSPENDED, CLEVIS TYPE HANGERS SHALL BE USED. HANGERS SHALL
- BE CONSTRUCTED OF ALUMINUM OR STAINLESS STEEL, BE SIZED TO ACCOMMODATE PIPE AND INSULATION WHEN APPLICABLE AND BE DESIGNED TO ALLOW VERTICAL ADJUSTMENT. B. WHERE INSULATED PIPES PASS THRU HANGERS. SHIELDS SHALL BE PROVIDED TO PROTECT
- 15250 INSULATION

A. COOLING COIL DRIP PIPING SHALL BE INSULATED WITH I' THICK ELASTOMERIC PIPE

B. REFRIGERANT PIPING SHALL BE INSULATED WITH I' THICK ELASTOMERIC PIPE INSULATION.

THE INSULATION. SHIELDS SHALL HAVE BOTTOM TABS FOR SECURING TO HANGERS.

- C. RECTANGULAR SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH I' LINER, UNLESS NOTED OTHERWISE.
- D. ROUND SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH 2" THICK
- FIBERGLASS BLANKET WITH VAPOR BARRIER FOIL. E. DUCT SIZES INDICATED ARE METAL SIZES, ALLOWANCE HAS BEEN MADE FOR LINER.
- 15840 DUCTWORK A. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA.
- B. ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL. ALL ELBOWS SHALL HAYE TURNING YANES.
- 15896 TEST AND BALANCE A. TEST AND ADJUST EACH SYSTEM TO THE SPECIFIED QUANTITY OF SUPPLY, RETURN, O.A. AND
- B. TEST AND ADJUST EACH AIR DEVICE TO WITHIN 10% OF DESIGN.

OOL	DEHUMIDIFIER	UNIT	SCHEDULE	
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GDF-2 KITCHEN SEPARATED COMBUSTION 200 160

INDOOR	२																				OUTDOO	R							
				TEM	2 / HUM	11DITY		_		COOL	ING			MOISTURE	POOL U	JR. HTR.	ELECTRIC	AL DATA					FANS			ELECTRIC	AL DAT/	4	
MARK	MARK CFM	O.A. CFM	ESP (in)	SPACE TEMP.	RH	POOL TEMP.	P00L 5Q. FT.	WHIRLPOOL TEMP	WHIRLPOOL SQ. FT.	COMP. (QTY)	REF. CKTS. (QTY)		BH) TOTAL	REMOVAL (*/HR)	GPM	P.D. (PSIG)	VOLTAGE	MCA F	1AX. USE	STANDARD OF PERFORMANCE	MARK	AMBIENT	QTY.	₽₽	RPM	VOLTAGE	MCA	MAX. FUSE	STANDARD OF PERFORMANCE
PDU-1	3400	400	1	84	50%	82	450	NA	NA	1	1	608	-	31	12	5	208/3/60	43	70	SERESCO M/N: NE-001-PYA3NTI342N0C2RN3	PCU-1	95	1	1/2	-	208/1/60	2.9	15	SERESCO M.N.: NC-001A06-0ACC

I. THE HEAT EXCHANGER FOR THE POOL WATER HEATER SHALL BE COAXIAL.

2. LINES SIZES: HOT GAS = 7/8", LIQUID = 5/8" 3. REFRIGERANT (R-22) CHARGE (LBS): FIELD CHARGE = 38\*

(BASED ON A RUN OF 0-10 FT. VERTICAL & 40 FT. HORIZONTAL, TOTAL RUN NOT TO EXCEED 50 FT.)

4. ENSURE THERE IS CLEARANCE AROUND THE PERIMETER OF THE CONDENSER EQUAL TO ITS WIDTH

5. PROVIDE TRAPS AT ALL ELEVATION CHANGES AND EVERY 20 FT OF RISER. 6. PROVIDE A SEPARATE POWER SUPPLY TO THE OUTDOOR CONDENSER. DISCONNECTS BY DIV 16.

UNIT ORIENTATION SHALL BE "VERTICAL-FLOOR MOUNTED" WITH DIRECT DRIVE FAN. 9. UNIT SHALL INCLUDE A MOTORIZED O/A DAMPER WITH TIME-CLOCK.

UNIT SHALL HAVE A USER-FRIENDLY ELECTRONIC CONTOL MONITOR WITH ROOM TISTAT AND HUMIDITY CONTROL AND UNIT TROUBLE-SHOOTING CAPABILITY. CONTROL AND SERVICE POINTS POINTS MONITORED SHALL

BE AIR TEMP, HUMIDITY, WATER TEMPS, REFRIGERANT HI AND LO PRESSURE, SENSOR FAILURES, LOW WATER FAULT, ANTI SHORT-CYCLE CONTROL AND COMMUNICATION FAULT, MONITORING SHALL BE

ACCOMPLISHED BY PLACING ALL THE TEMP AND HUMIDITY SENSORS IN THE UNIT AND MONITORING WITH A DIGITAL DISPLAY CONTROLLER THAT IS UNIT MOUNTED -- THE PANEL SHALL INCLUDE ALL SETPOINTS

FOR OPERATION. CONTROLLER SHALL BE CAPABLE OF UPDATING THRU A COMPUTER CONNECTION OR INTERNET CONNECTION. CONTROLLER SHALL BE CAPABLE OF MONITORING OVER AN INTERNET CONNECTION AT THE OPTION OF THE OWNER

II. UNIT SHALL HAVE FACTORY TRAINED STARTUP SERVICE. 12. CONTACT JIM MORGAN @ GORHAM/SCHAFFLER, INC., MEMPHIS, TN., FOR INFORMATION PHONE: 1-901-345-6100

## MAKE-UP AIR UNIT SCHEDULE

		•			<b>-</b>																	
			COOLING (	MBH)					HEATING	;			SUPF	LY FAN	ELECTRICA	L DATA						
		ESP	SENSIBLE	TOTAL	ENT.	AIR	LVG	. AIR	INPUT	OUTPUT	AIR	TEMP.	±0	FRPM	YOLTAGE	COMP.	EYAP. FAN	COND. FAN	MIN. CIRCUIT	MAX. FUSE	WEIGHT	STANDARD OF
MARK	RK CFM (in.)		SENSIBLE	IOIAL	DB	WB	DB	WB	(MBH)	(MBH)	Ent.	Lvg.	HIT	FRF11	YOLIAGE	RLA	FLA	FLA	AMPS	SIZE	lbs.	PERFORMANCE
MAU-I	3800	1.00	135.51	258.29	94	79	59.50	59.30	39Ø	315.9	12	89	2	945	208/3/60	2x3Ø.1	7.5	2×5.4	86	110	3100	AAON RM-020-8-0-BA02-364
MAU-2	3800	1.00	135.51	258.29	94	79	59.50	59.30	39Ø	315.9	12	89	2	945	208/3/60	2×3Ø.1	7.5	2x5.4	86	110	3100	AAON RM-020-8-0-BA02-364

UNIT SHALL BE FACTORY ASSEMBLED, PIPED, WIRED AND TESTED AS A SINGLE PACKAGE. UNIT SHALL INCLUDE A 100% OUTSIDE AIR HOOD WITH 2 POSITION MOTORIZED DAMPER MAKE-UP AIR UNITS SHALL HAVE R-410 REFRIGERANT, ONLY. R-22 IS NOT ACCEPTABLE.

MAKE-UP AIR UNITS SHALL HAVE STAINLESS STEEL DRAIN PANS.

3. UNIT SHALL INCLUDE 2-STAGE COOLING, 2 COMPRESSOR CIRCUITS WITH INTERLACED-CIRCUIT DX COIL (HORIZONTAL SPLIT NOT ACCEPTABLE) UNIT SHALL INCLUDE 4 STAGE HEATING WITH STAINLESS STEEL HEAT EXCHANGER WITH A 25 YEAR WARRANTY (PARTS ONLY)

UNIT SHALL INCLUDE HOT GAS BYPASS FOR COIL FROST PROTECTION AT LESS THAN DESIGN AMBIENT CONDITIONS
UNIT SHALL INCLUDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION AND TEMPERATURE CONTROL. TWO-POSITION REHEAT OR
DEDICATED REFRIGERATION REHEAT IS NOT ACCEPTABLE.

UNIT SHALL INCLUDE 5 MINUTE ANTI-RECYCLE TIMER \$ 20 SECOND TIMER BETWEEN COMPRESSOR STAGES

ELECTRICAL DATA

MCA MAX. FUSE VOLTAGE

15

UNIT SHALL INCLUDE CRANKCASE HEATER, MANUAL RESET HIGH PRESSURE SWITCHES & AUTO RESET LOW PRESSURE SWITCHES 9. UNIT SHALL INCLUDE CONDENSER FAN CYCLING CONTROL AND UNDER/OVER COLTAGE AND PHASE FAILURE 10. UNIT SHALL INCLUDE 2 INCH, 30% PLEATED FILTERS

II. CONTROLS: WATTMASTER/ORION MUA-II CONTROLLER WITH AMBIENT DEWPOINT SENSORS ELECTRONIC SEQUENCING OF COMPRESSORS AND GAS HEATING AND MODULATING HOT GAS RE-HEATING. A) THE UNIT SHALL CONTINUOUSLY SUPPLY A MAXIMUM OF 59.50 DEWPOINT TO THE CONDITIONED SPACE

B) IF THIS CAUSES OVERCOOLING IN THE SPACE, THE MODULATING HOT GAS REHEAT VALVE SHALL OPEN TO SATISFY THE CONDITIONED SPACE REQUIREMENT C) WHEN HEATING IS REQUIRED, THE HEAT EXCHANGER STAGES SHALL CYCLE BASED ON AN ALGORITHM OF DEMAND FROM THE WALL TISTAT AND MINIMUM

DUCT DISCHARGE TEMPERATURE.

D) ALL UNIT MOUNTED CONTROLS FOR COMPLETE OPERATION SHALL BE INSTALLED BY THE EQUIPMENT MANUFACTURER

E) FIELD MOUNTED CONTROLS SHALL INCLUDE A DUCT MOUNTED LEAVING AIR

STAT AND A WALL MOUNTED STAT (SEE PLANS FOR LOCATION) 12. UNIT SHALL INCLUDE A 30" HIGH FACTORY ASSEMBLED AND INSULATED ROOF CURB/PLENUM SUITABLE FOR SIDE DISCHARGE

13. COMPRESSORS SHALL HAVE 5 YEAR WARRANTY (PARTS ONLY) 14. PROVIDE STARTUP AND INITIATION OF OPERATION THRU MUA UNIT SUPPLIER/SCHAFFLER, INC., MEMPHIS, TN., FOR INFORMATION PHONE: 1-901-345-6100 15. CONTACT JIM MORGAN ● GORHAM/6CHAFFLER, INC., MEMPHIS, TN., FOR INFORMATION PHONE: 1-901-345-6100

STANDARD

15 | 208-230/I | DAIKIN RXS09DVJU

OF PERFORMANCE

DAIKIN RXSI2DVJU

DAIKIN RXSI2DVJU

**ELECTRIC HEATER SCHEDULE** STANDARD OF YOLTAGE MARK LOCATION TYPE ΚW REMARKS PERFORMANCE EWH-1 STAIRWELL WALL208/1/60 **QMARK** 1, 2 EUH-1 FIRE PUMP UNIT QMARK 208/1/60 3, 4 VESTIBULE CEILING 208/1/60 QMARK 2,5

. RECESS MOUNT WHERE POSSIBLE. PROVIDE WALL SLEEVE WHEN CONSTRUCTION REQUIRES SURFACE MOUNTING. 2. UNIT MOUNTED THERMOSTAT

3. WALL MOUNTED THERMOSTAT 4. SUSPENSION KIT

5. SEMI-RECESS MOUNT

VAV	SCHEDULE													
			COOLING	C	<b>-</b> M	AIRE	L <i>O</i> W		REHEA	Τ	ELEC	TRICAL	-	
MARK	AREA SERVED	UNIT	SENSIBLE (BTUH)	MAX	MIN	INLET (IN)	APD (IN)	KW	EAT	LAT	VOLTAGE	MCA	MOCP	STANDARD OF PERFORMANCE
<b>∀∆∀</b> -1	SALES OFFICE	RTU-4	18,200	740	37Ø	12	Ø.Ø1	4.0	55	89	208/1/60	2Ø.2	25	TRANE VCEF-12

SINGLE DUCT, ELECTRIC HEAT. . INTERNAL MATTE (1") INSULATION.

3. MERCURY CONTACTS (24 YOLTS).

5. LED DISPLAY ZONE SENSOR.

4. DDC CONTROLS ON/OFF ELECTRIC HEAT CONTROL.

6. STAND ALONE SENSOR TO DETECT INCOMING AIR TEMP.

7. IN COOL MODE ELECTRIC HEAT IN ENERGIZED AT MIN. AIRFLOW. 8. IN HEAT MODE ELECTRIC HEAT IN EBNERGIZED IF THE RTU FAILS TO MAINTAIN TEMP.

9. IN HEAT MODE THE YAY SHALL MODULATE TO PREVENT OVERHEATING. 10. DISCONNECTS AND FUSES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.

THRU WALL HEAT PUMP SCHEDULE													
MARK	CFM	O.A. CFM	COOLING CAPACITY (MBH)		E.A.T.		24. April 1991 199	REV. CYCLE	HEATING	ELECTRICAL DATA			STANDARD
			SENSIBLE	TOTAL	DB	WB	AMBIENT	HEAT # 47 DEG. (MBH)	Elec. (Watts)	MCA	MAX. FUSE	VOLTAGE	OF PERFORMANCE
A	240	Ø	5548	5788	T3	61	100	8400	1.6	11.1	15	208/1/60	GE 5800-09
В	315	Ø	T36Ø	7600	T3	61	100	11200	1.6	11.1	15	208/1/60	GE 5800-12
C	315	Ø	9Ø29	11339	<b>T3</b>	61	100	13500	2.9	19.3	2Ø	208/1/60	GE 5800-15

1. PROVIDE WITH ELECTRICAL SUB-BASE

2. CONDENSATION EVAPORATION SYSTEM AND SECONDARY DRAIN KIT

3. CONTROLS SHALL PREVENT THE OPERATION OF THE COMPRESSOR AND ELECTRIC HEAT AT THE SAME TIME 4. ARCHITECTURAL DECORATIVE LOUVER (PROVIDED BY THE GENERAL CONTRACTOR) AS MANUFACTURED BY RELIABLE PRODUCTS. LOUVERS SHALL BE CONSTRUCTED OF ALUMINUM WITH CUSTOM FINISH AS DIRECTED BY THE ARCHITECT.

5. TEMPERATURE LIMITING CONTROLS 6. PROVIDE WITH REMOTE MOUNTED THERMOSTAT, INNOM E4 SMARTSTAT.



ARCHITECTS 803 S. MOUNT MORIAH

SUITE 100B MEMPHIS, TN 38117 (901) 683-7175 p. (901) 683-2385 f. Ilw@llwarchitects.com ISSUED DATE | ISSUED | 1*0/26/0*7

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CONSULTANTS STRUCTURAL:

**MECHANICAL**: **CRABTREE ENGINEERING** 726 S. MT. MORIAH MEMPHIS, TN 38117 (901) 767-9898

**PLUMBING:** CRABTREE ENGINEERING 726 S. MT. MORIAH MEMPHIS. TN 38117 (901) 277-1853

> **ELECTRICAL: CHS ENGINEERING** 726 S. MT. MORIAH MEMPHIS, TN 38117





SHEET NAME **HVAC SCHEDULES** 

DATE 10/26/07 DRAWN BY

**CHECKED BY** 

FILE NAME

SCALE

PROJECT NO.

DRAWING

## 208-230/1 80 | 67 | 7.9 | DX-B DAIKIN FTX512DVJU CU-B 8100 16.00 6560 ELEVATOR NΑ 8100 11500 208/1/60 11500 DX-C COMPUTER | WALL HUNG: | 242 | Ø | NA | 11500 | 80 | 67 | 208/1/60 7.9 | 15 208-230/1 DAIKIN FTX512DVJU CU-C 81*00* 11500 16.00 6560 8100 95 208-230/1 DAIKIN RXSI2DVJU 7.9 | 15 DX-D ELEVATOR | WALL HUNG | 242 | Ø | NA | 8100 208/1/60 DAIKIN FTX512DVJU CU-D 8100 16.00 6560 11500 11500 1.9 | 15 | 208-230/1 | DAIKIN RXSI2DVJU DX-E A/Y ROOM | WALL HUNG | 242 | Ø | NA | 8100 | 11500 | 80 | 67 | 208/1/60 DAIKIN FTX512DVJU CU-D 8100 11500 16.00 95 6560 1. EXTEND ACR COPPER TO CONDENSING UNIT. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 8. MOUNT GROUND MOUNTED UNITS ON 4" THICK CONCRETE PAD WITH CHAMFERED EDGES, SLOPE 1/8" PER FOOT AWAY FROM BLDG. 9. MOUNT ROOF MOUNTED UNITS ON PYC EQUIPMENT PAD, PROVIDE WALK TREAD BELOW PAD. PIPING CONNECTION AT UNIT TO BE DEEP FLARE ONLY. 2. EXTEND 1-1/2" TRAPPED CONDENSATE (1" ARMAFLEX INSULATION) TO OUTLET BY PLUMBER. 10. COMPRESSORS AND CONDENSERS SHALL BE YARIABLE SPEED CONTROLLED 3. ELEVATOR, COMPUTER 4 SUITE SHOP EQUIPMENT SHALL HAVE PRIORITY OVER LOCATION OF DX UNIT, COORDINATE PRIOR TO ROUGH-IN. PROVIDE ALL REFRIGERATION ACCESSORIES AS REQUIRED. 4. POWER IS FROM CONDENSING UNIT. REFER TO CONDENSING UNIT SCHEDULE FOR ELECTRICAL DATA. 12. USE REFRIGERANT R-410A ONLY

STANDARD OF

PERFORMANCE

DAIKIN FDX5Ø9DYJU CU-A

ELECTRICAL

**YOLTAGE** 

208/1/60

HEAT PUMP SCHEDULE

SENSIBLE TOTAL

EFFICIENCY

SEER

16.00

95

13. MCAMAX FUSE SIZE ARE FOR BOTH INTERIOR AND OUTDOOR UNITS COMBINED

HEATING

14 DEG. F

REV. CYCLE AT

5800

COOLING

MARK CAPACITY (BTUH)

6000