PART II – PRIMARY SYSTEMS INFORMATION

1. Operation

a. System Description

- 1. <u>System Composition</u>: The HVAC system consists of a complete installation of mechanical equipment to provide adequate heating, ventilation and air conditioning to the facility. All equipment is controlled through the DDC system. Individual descriptions of the HVAC systems are as follows:
 - a. The cooling system consists of air side and water side systems. The two airside distribution systems are variable air volume with terminal reheat (VAVTR). Each system consists of an air handling unit (AHU), supply and return air fans, terminal units, ductwork, and air devices. The waterside systems consist of an air cooled screw water chiller, two constant volume pumps piped in parallel, cooling coils mounted inside the air handling units, and connecting piping. The water chiller maintains a 7.2 degrees C. (45 degrees F.) leaving water temperature, which is piped to the cooling coils that absorb heat from the air and transfer it to the evaporator of the water chiller.

Outside air economizers in the air handling systems will cool the building whenever the ambient temperature falls below 12.7 degrees C. (55 degrees F.). The DDC system will de-energize the chilled water system whenever the outside air economizers are operating.

b. Air Distribution Systems: Two VAVTR air distribution systems are located in Room 2D05, and distribute conditioned air to terminal units throughout the facility, through insulated duct distribution systems located above the ceilings. Additional supply air ductwork connects the terminal units to air devices located in the conditioned spaces. Air is drawn from room air devices back to the return air fan of each AHU. The dampers inside the AHU control the air that is relieved to the outdoors or mixed with fresh outside air and recirculated back through the system. Fresh outside air is introduced into the system through a wall louver and is ducted to each AHU. The outside air duct has a minimum position damper with an airflow measuring station to calculate airflow. A second outside air damper controls airflow to the AHU for the economizer cycle. The economizer dampers modulate open whenever the outside air temperature is below 12.7 degrees C. (55 degrees F.). The supply and return fan speed is controlled by variable frequency drives, which vary the airflow through a static pressure controller located in the duct system and set to maintain a minimum of 250 Pa pressure. The return air fan speed tracks the supply fan speed in order to maintain a constant differential airflow equal to the outside air flow. AHU-1 & AHU-2 are provided with 30% pre-filters and 90% after-filters. These filters may require more maintenance supervision for the first few years because the current site

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does not have a stand of grass and wind blown dirt debris may enter the air systems.

When the outside air temperature is above 12.7 degrees C. (55 degrees F.), the three way control valve on the piping of the AHU cooling coil will modulate open to maintain a constant discharge air temperature of 11.4 degrees C. Upon detection of combustion products in the airstream, the smoke detector will stop the fan and the smoke dampers in the supply and return ductwork will close.

Split system direct expansion units cool the communication rooms continuously, and the computer room only when the AHU's are shut down during unoccupied periods. The unit serving the computer room is provided with a built in Humidifier. This Humidifier may be shut down by building maintenance if found that it is not needed.

The terminal units each have a regulator, which is controlled by a space temperature sensor, and modulates from maximum to minimum airflow to maintain temperature setpoint in the space. On a further drop in space temperature, the control valve on the hot water reheat coil will modulate open and provide heat to the space. Building exhaust is draw from the spaces through air devices to in-line or roof mounted centrifugal exhaust fans which air interlocked with the AHU's.

- b. The heating system consists of a natural gas fired copper tube boiler and two circulating pumps, piped in parallel to reheat coils mounted in terminal units described in "b" above. Both of the hot water pump shall operate during the heating season. The boiler hot water supply temperature is a maximum of 85 degrees C, but is reset through a controller down to a minimum of 48 degrees C, based on outside air temperature.
- c. See schedules on the following sheets for equipment and equipment capacities.

	AIR HANDLING UNIT SCHEDULE																
MARK TYPE UNIT FAN COOLING COIL																	
	,,,,_	LOCATION ROOM No.		MINIMUM OUTSIDE AIR L/s	DESIGN EXT. S.P. IN. Po	MIN. FAN MOTOR KW		PH		CAPACITY			LVG. D.B. C	W.B.	ENT. WATER TEMP. 'C	LVG. WATER TEMP. C	CHILLED WATER L/s
AHU-1	1.	2D-05	12385/8850	3255	900	30	480	3	60	330,909	25.2	18.4	10.8	10.3	7.2	12.8	14.25
AHU-2	1	2D-05	10675/6130	2385	625	30	480	3	60	219,282	24.5	17.2	11.3	10.8	7.2	12.8	9.44

BOII	BOILER SCHEDULE (HOT WATER)												
MARK	INPUT KW	OUTPUT MIN. KW	WATER FLOW M ³ /HR	ENT. WATER TEMP. C	LVG WATER TEMP. C	ELECTRICAL							
B-1	405.0	324.0	21.0	68.9	82.2	120/1/60							

DES	DESIGN CONDITIONS											
HEATING & COOLING	LOCATION	SUMMER	WINTER									
1. ALL LOCATIONS EXCEPT	OUTSIDE	26.7 °C D.B. & 20.5 °C W.B.	6.1°C D.B.									
OTHERWISE INDICATED	INSIDE	23.9 °C D.B. & 50% R.H.	20.0 °C D.B.									
2. DENTAL TREATMENT RM'S	OUTSIDE	26.7 °C D.B. & 20.6 °C W.B.	6.1°C D.B.									
2C-06 & 2C-09	INSIDE	23.9 °C D.B. & 50% R.H.	20.0 °C D.B.									
3. MECHANICAL ROOMS	OUTSIDE	SAME AS NO. 1 ABOVE	6.1°C D.B.									
ELECTRICAL ROOMS	INSIDE	30.0 °C D.B.	_									

	AIR COOLED CHILLER SCHEDULE											
MARK	MARK LOCATION DESCRIPTION MIN. COOL WATER FLOW AMBIENT TEMP, LVG. WATER ENT. WATER ELECTRICAL MIN. STEPS OF CAP. KW M 3 /HR 'C TEMP. 'C. TEMP. 'C. CHAR. CAP. UNLOADING											
ACC-1	OUTSIDE	PACKAGED AIR COOLED CHILLER	523	85.2	8	32.2	7.2	12.8	480/3/60	100/75/50/25/0%		

					P	UMP	SC	CH	EDULE				
MARK	SERVICE	WT'R FLOW	MAX. R.P.M.	MIN. HEAD M	MIN. MOTOR SIZE KW	VOLTS	WER PH.	CY.	IEC MOTOR STARTER K.W. RATING	TYPE	PIPING CIRCUIT SERVED	LOCATION	REMARKS
HWP-1	HWS & HWR	10.5	1750	21.4	2.0	480	3	60	4.0	1	HWS & HWR	2D-05	*
HWP-2	HWS & HWR	10.5	1750	21.4	2.0	480	3	60	4.0	1	HWS & HWR	2D05	*
CWP-1	CWS & CWR	42.64	1750	21	5.9	480	3	60	7.5	1	CWS & CWR	1E15	*
CWP-2	CWS & CWR	42.64	1750	21	5.9	480	3	60	7.5	1	CWS & CWR	1E-15	*

	FAN SCHEDULE												
UNIT NO.	LOCATION	TOTAL AIR L/s	INTERLOCK WITH	MAX. RPM	EXT. S.P.	DESIGN MOTOR		POWER		DRIVE			
		L/S			'	WATTS	VOLT	PH	CYC				
RAF-1	2D-05	9130	AHU-1	1050	620	15000	480	3	60	BELT			
RAF-2	2D-05	8290	AHU-2	950	520	11000	480	3	60	BELT			
EF1-1	RF. BLOCK 1B	715	AHU-1	880	225	370	120	1	60	BELT			
EF1-2	RF. BLOCK 2B	860	AHU-1	775	155	250	120	1	60	BELT			
EF1-3	RF. BLOCK 1E	1360	AHU-1	925	225	750	480	3	60	BELT			
EF1-4	RF. BLOCK 1E	70	AHU-1	1485	125	30	120	1	60	DIRECT			
EF2-1	2D-05	810	AHU-2	750	215	550	208	3	60	BELT			
EF2-2	2D-05	1130	AHU-2	615	250	750	480	3	60	BELT			
EF2~3	2D-05	270	AHU-2	1650	325	370	120	1	60	BELT			
EF-3	1E-15	450	THERMOSTAT	27.5	95	125	120	1	60	DIRECT			
SF-4	1E-15A	50	THERMOSTAT	20.6	95	62	120	1	60	DIRECT			
EF-5	1E-17	100	THERMOSTAT	20.6	95	62	120	1	60	DIRECT			
EF-6	1E-20	100	THERMOSTAT	20.6	95	62	120	1	60	DIRECT			
EF-7	1E-21	50	THERMOSTAT	20.6	95	62	120	1	60	DIRECT			
SF-1	2D-05	3100	THERMOSTAT	45.5	125	750	480	3	60	DIRECT			

	A.C. UNIT SCHEDULE											
MARK	MARK LOCATION TYPE TOTAL O.A. APPROX. APPROX. D.X. COOLING COIL											
	200/1/10/1			L/s	L/s	E.S.P. Pa	FAN KW	TOTAL* SENSIBLE*		ELECTRICAL		
AC-1	1B-21	HORIZ.	D.X. FAN COIL	300	0	50	.07	2500	2500	120/1/60		
AC-2	1C-13	HORIZ.	D.X. FAN COIL	300	0	50	.07	2500	2500	120/1/60		
AC-3	2B-12	HORIZ.	D.X. FAN COIL	300	0	50	.07	2500	2500	120/1/60		
AC-4	2C-15	HORIZ.	D.X. FAN COIL	300	0	50	.07	2500	2500	120/1/60		
**AC-5	2D-04	HORIZ.	D.X. FAN COIL	300	0	75	.07	3500	3500	208/1/60		

4		OLED INIT SO	_	DENSIN JLE	G
MARK	MATCHING A/C UNIT	*CAPACITY WATTS	OUTDOOR DESIGN TEMP. C	ELEC. CHAR.	** EFFICIENCY
ACCU-1	AC-1	2500	35	208/1/60	10.0 SEER
ACCU-2	AC-2	2500	35	208/1/60	10.0 SEER
ACCU-3	AC-3	2500	35	208/1/60	10.0 SEER
ACCU-4	AC-4	2500	35	208/1/60	10.0 SEER
ACCU-5	AC-5	3500	35	208/1/60	10.0 SEER

MARK AND DESIGN SET PT. CAPACITY C. C. C. C. C. C. C. C		JR T	ERMIN					C.V	R.H.	SCHEDULE		
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1											1AC2	
J											1A-16	
K											1A-16	
L											1A-10	
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FF 1 355 320 5365.3 12.8 26.7 82.2 71.1 0.41 GG 1 230 100 1676.8 12.8 26.7 82.2 71.1 0.14 HH 1 135 80 1341.3 12.8 26.7 82.2 71.1 0.14 HH 1 1 185 105 1760.4 12.8 26.7 82.2 71.1 0.14 J D E L E T E D KK 1 280 280 4694.8 12.8 26.7 82.2 71.1 0.36 LL 1 125 65 1089.9 12.8 26.7 82.2 71.1 0.36 LL 1 125 65 1089.9 12.8 26.7 82.2 71.1 0.09 MM 1 135 80 1341.3 12.8 26.7 82.2 71.1 0.09 MM 1 1 135 80 1341.3 12.8 26.7 82.2 71.1 0.09 MM 1 1 135 80 1341.3 12.8 26.7 82.2 71.1 0.09 MR 1 1 90 70 1173.7 12.8 26.7 82.2 71.1 0.09 DO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.09 DO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.09 DO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.09 DO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.09 DO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.09 DO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.05 DO 1 1 400 205 3432.3 12.8 26.7 82.2 71.1 0.25 DO 1 1 410 205 3432.3 12.8 26.7 82.2 71.1 0.27 RR 1 285 0 0.0 12.8 12.8 26.7 82.2 71.1 0.27 RR 1 285 0 0.0 0.0 12.8 12.8 26.7 82.2 71.1 0.27 RR 1 205 135 2263.6 12.8 26.7 82.2 71.1 0.18 DU 1 1 205 135 2263.6 12.8 26.7 82.2 71.1 0.18 DV 1 75 40 670.8 12.8 26.7 82.2 71.1 0.18 DV 1 75 40 670.8 12.8 26.7 82.2 71.1 0.18 DV 1 75 40 670.8 12.8 26.7 82.2 71.1 0.18 DV 1 75 40 670.8 12.8 26.7 82.2 71.1 0.18 DV 1 75 40 670.8 12.8 26.7 82.2 71.1 0.19 DV 1 166 100 1676.6 12.8 26.7 82.2 71.1 0.09 DV 1 166 100 1676.6 12.8 26.7 82.2 71.1 0.09 DV 1 166 100 1676.6 12.8 26.7 82.2 71.1 0.09 DV 1 1 165 100 1676.6 12.8 26.7 82.2 71.1 0.14 DV 1 1 55 5 5 5 22.3 12.8 26.7 82.2 71.1 0.14 DV 1 1 55 5 5 5 22.3 12.8 26.7 82.2 71.1 0.14 DV 1 1 55 5 5 5 22.3 12.8 26.7 82.2 71.1 0.16 DV 1 1 10 100 1676.6 12.8 26.7 82.2 71.1 0.14 DV 1 1 10 100 1676.6 12.8 26.7 82.2 71.1 0.14 DV 1 1 10 100 1676.6 12.8 26.7 82.2 71.1 0.14 DV 1 1 10 100 1676.6 12.8 26.7 82.2 71.1 0.16 DV 1 1 10 100 1676.6 12.8 26.7 82.2 71.1 0.16 DV 1 1 10 100 1576.6 12.8 26.7 82.2 71.1 0.16 DV 1 1 10 100 150 2515.0 12.8 26.7 82.2 71.1 0.16 DV 1 1 10 100 150 2515.0 12.8 26.7 82.2 71.											1D-13	
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JJ D E L E T E D S S S S S S S S S S S S S S S S S S											1D-16	
KK 1 280 280 4694.8 12.8 26.7 82.2 71.1 0.36 LL 1 125 65 1089.9 12.8 26.7 82.2 71.1 0.09 MM 1 135 80 1341.3 12.8 26.7 82.2 71.1 0.01 NN 1 90 70 1173.7 12.8 26.7 82.2 71.1 0.09 OO 1 405 185 3101.7 12.8 26.7 82.2 71.1 0.09 PP 1 130 130 2179.8 12.8 26.7 82.2 71.1 0.27 PP 1 130 130 2179.8 12.8 26.7 82.2 71.1 0.27 RP 1 265 0 0.0 12.8 12.8 26.7 82.2 71.1 0.16 WD 1 70 140 2347.4 12.8 26.7								02.2	''''	0.17	10 10	
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MM	ш	1									1D-27	
NN	ММ	1									1D-23	
DOC 1	NN	1	90	70							1E-14	
PP	00	1	405	185							1D-25	
QQ 1 410 205 3432.3 12.8 28.7 82.2 71.1 0.27 RR 1 265 0 0.0 12.8 12.8 N/A N/A 0.00 SS D E L E T E D IT 1 170 140 2347.4 12.8 26.7 82.2 71.1 0.18 UU 1 205 135 2263.6 12.8 26.7 82.2 71.1 0.18 WW 1 110 65 1089.9 12.8 26.7 82.2 71.1 0.09 XX 1 60 60 1006.1 12.8 26.7 82.2 71.1 0.07 YY 1 165 100 1676.6 12.8 26.7 82.2 71.1 0.07 ZZ D E L E T E D 1.00 1.00 1.00 1.00	PP	1	130	130	2179.8						1E-33	
RR 1 265 0 0.0 12.8 12.8 N/A N/A 0.00 SS D E L E T E D T 1 170 140 2347.4 12.8 26.7 82.2 71.1 0.18 UU 1 205 135 2263.6 12.8 26.7 82.2 71.1 0.18 WW 1 75 40 670.8 12.8 26.7 82.2 71.1 0.09 XX 1 60 60 1006.1 12.8 26.7 82.2 71.1 0.07 YY 1 165 100 1676.6 12.8 26.7 82.2 71.1 0.04 ZZ D E L E T E D XX 1 1 60 60 1006.1 12.8 26.7 82.2 71.1 0.09 BBB 1 555 350 5668.5 12.8 26.7 82.2 71.1 0.09 BBB 1 555 350 5668.5 12.8 26.7 82.2 71.1 0.09 BBB 1 555 350 5668.5 12.8 26.7 82.2 71.1 0.09 BEE L E T E D BEE L T E D BEE L E T E D BE	QQ	1	410								1E-16	
SS	RR	1	265	0	0.0	12.8					1E-19	
UU 1 205 135 2263.6 12.8 26.7 82.2 71.1 0.18 WW 1 75 40 670.8 12.8 26.7 82.2 76.6 0.11 WW 1 1110 65 1089.9 12.8 26.7 82.2 71.1 0.09 XX 1 60 60 1006.1 12.8 26.7 82.2 71.1 0.07 YY 1 165 100 1676.6 12.8 26.7 82.2 71.1 0.07 YY 1 165 300 1676.6 12.8 26.7 82.2 71.1 0.09 BBB 1 565 350 5868.5 12.8 26.7 82.2 71.1 0.45 CCC 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.45 CCC 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.45 CCC 1 180 130 2279.8 12.8 26.7 82.2 71.1 0.45 CCC 1 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.16 CCC 1 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.16 CCC 1 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.16 CCC 1 1 180 130 130 2179.8 12.8 26.7 82.2 71.1 0.16 CCC 1 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.16 CCC 1 1 180 130 135 2263.6 12.8 26.7 82.2 71.1 0.16 CCC 1 1 180 100 1676.6 12.8 26.7 82.2 71.1 0.14 CCC 1 1 160 100 1676.6 12.8 26.7 82.2 71.1 0.14 CCC 1 1 160 100 1676.6 12.8 26.7 82.2 71.1 0.14 CCC 1 1 160 100 1676.6 12.8 26.7 82.2 71.1 0.18 CCC 1 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.19 CCC 1 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.09 CCC 1 1 155 55 922.3 12.8 26.7 82.2 71.1 0.09 CCC 1 1 155 105 105 1760.4 12.8 26.7 82.2 71.1 0.09 CCC 1 1 150 105 105 1760.4 12.8 26.7 82.2 71.1 0.07 CCC 1 1 150 105 105 1760.4 12.8 26.7 82.2 71.1 0.14 CCC 1 1 150 105 105 1760.4 12.8 26.7 82.2 71.1 0.14 CCC 1 1 100 100 100 100 100 100 100 100	SS		D E	L E	ΤE	D		, , , , , , , , , , , , , , , , , , , ,	17.11			
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VM	UU	1	205	135	2263.6	12.8	26.7				1E-11	
WW	W	1	75	40	670.8						1D-28	
XX	W	1	110	65	1089.9	12.8					1D-31	
YY 1 165 100 1676.6 12.8 26.7 82.2 71.1 0.14 ZZ D E L E T E D	XX	1	60	60		12.8					1D-33	
AAA	YY	1	165	100	1676.6	12.8	26.7				1D34	
AAA 1 130 65 1089.9 12.8 26.7 82.2 71.1 0.09 BBB 1 565 350 5868.5 12.8 26.7 82.2 71.1 0.45 CCC 1 180 130 2179.8 12.8 26.7 82.2 71.1 0.16 DDD 1 95 40 670.8 12.8 26.7 82.2 71.1 0.16 DDD 1 95 40 670.8 12.8 26.7 82.2 71.1 0.14 FFF 1 330 135 2263.6 12.8 26.7 82.2 71.1 0.14 BGG 1 155 70 1243.4 12.8 27.5 82.2 71.1 0.09 HHH 1 300 150 2515.0 12.8 26.7 82.2 71.1 0.09 HHH 1 55 55 55 922.3 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 HI 1 55 55 55 922.3 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 HI 1 55 55 55 922.3 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.00 BGG 1 155 70 1243.4 12.8 26.7 82.2 71.1 0.14 BGG 1 1 155 105 105 1760.4 12.8 26.7 82.2 71.1 0.14 BGG 1 1 155 105 105 1760.4 12.8 26.7 82.2 71.1 0.17 BGG 1 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.11 BGG 1 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.15 BGG 1 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.15 BGG 1 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.20 BGR 1 170 170 2850 12.8 26.7 82.2 71.1 0.25 BGG 1 1 15 115 1928.0 12.8 26.7 82.2 71.1 0.36 BGG 1 1 15 115 1928.0 12.8 26.7 82.2 71.1 0.36 BGG 1 1 15 115 1928.0 12.8 26.7 82.2 71.1 0.36 BGG 1 1 15 115 1928.0 12.8 26.7 82.2 71.1 0.36 BGG 1 1 15 115 1928.0 12.8 26.7 82.2 71.1 0.36 BGG 1 1 15 115 1928.0 12.8 26.7 82.2 71.1 0.36			D E	L E						1		
1		1					26.7	82.2	71.1	0.09	1E-07	
1						12.8					1E-24	
DDD									71.1		1E-06	
IEE 1 160 100 1676.6 12.8 26.7 82.2 71.1 0.14 FFF 1 330 135 2263.6 12.8 26.7 82.2 71.1 0.18 IGG 1 155 70 1243.4 12.8 27.5 82.2 71.1 0.09 IHH 1 300 150 2515.0 12.8 26.7 82.2 71.1 0.00 IJJ 1 55 55 922.3 12.8 26.7 82.2 71.1 0.07 JJJ 1 105 105 1760.4 12.8 26.7 82.2 71.1 0.07 JJJ 1 105 50 838.4 12.8 26.7 82.2 71.1 0.07 JLL 1 60 35 586.7 12.8 26.7 82.2 71.1 0.07 JLL 1 60 35 586.7 12.8 26.7 82.2<											1E-26	
1											1E-05	
HHH									71.1	0.18	1E-29	
High 1 300 150 2515.0 12.8 26.7 82.2 71.1 0.20									71.1		1E-25	
1								82.2			1DC1	
June 1									71.1		1DC8	
KKK 1 95 50 838.4 12.8 26.7 82.2 71.1 0.07 LL 1 60 35 586.7 12.8 26.7 82.2 76.6 0.09 IMM 1 230 85 1425.1 12.8 26.7 82.2 71.1 0.11 INN 1 540 0 0.0 12.8 12.8 12.8 N/A N/A 0.00 DOO 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.16 PPP 1 50 0 0.0 12.8 12.8 26.7 82.2 71.1 0.16 PPP 1 50 0 0.0 12.8 26.7 82.2 71.1 0.20 RRR 1 170 170 2850 12.8 26.7 82.2 71.1 0.23 SSS 1 295 190 3185 12.8 26									71.1	0.14	1D-38	
MM									71.1		1D-40	
NN											1D-35	
1000 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.16 1										0.11	1AC2	
100 1 135 115 1928.0 12.8 26.7 82.2 71.1 0.16 100 1 390 155 2598.8 12.8 26.7 82.2 71.1 0.20 100 1 390 155 2598.8 12.8 26.7 82.2 71.1 0.20 100 1 170 170 2850 12.8 26.7 82.2 71.1 0.23 100 1 295 190 3185 12.8 26.7 82.2 71.1 0.23 100 1 295 295 3185 12.8 26.7 82.2 71.1 0.25 111 1 460 155 2598.8 12.8 26.7 82.2 71.1 0.20 110 1 275 275 4611.0 12.8 26.7 82.2 71.1 0.36 110 1 110 50 838.4 12.8 26.7 82.2 71.1 0.07 110 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 110 110 730 730 12239.5 12.8 26.7 82.2 71.1 0.95 111 1730 730 12239.5 12.8 26.7 82.2 71.1 0.95 111 1730 730 12239.5 12.8 26.7 82.2 71.1 0.95 111 112 113 114 115 115 1928.0 12.8 26.7 82.2 71.1 0.95 111 112 113 114 115									N/A	0.00	1E-02	
PPP 1 50 0 0.0 12.8 12.8 N/A N/A 0.00 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								82.2	71.1		1BC4	
IOQ 1 390 155 2598.8 12.8 26.7 82.2 71.1 0.20 IRR 1 170 170 2850 12.8 26.7 82.2 71.1 0.23 ISSS 1 295 190 3185 12.8 26.7 82.2 71.1 0.25 ITI 1 460 155 2598.8 12.8 26.7 82.2 71.1 0.20 IUU 1 275 275 4611.0 12.8 26.7 82.2 71.1 0.36 W 1 110 50 838.4 12.8 26.7 82.2 71.1 0.07 WW 1 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95								N/A		0.00	1B-23	
RRR 1 170 170 2850 12.8 26.7 82.2 71.1 0.23 SSS 1 295 190 3185 12.8 26.7 82.2 71.1 0.25 IIII 1 460 155 2598.8 12.8 26.7 82.2 71.1 0.20 IIII 1 275 275 4611.0 12.8 26.7 82.2 71.1 0.36 RV 1 110 50 838.4 12.8 26.7 82.2 71.1 0.07 RW 1 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95								82.2			1B-19	
SSS 1 295 190 3185 12.8 26.7 82.2 71.1 0.25 ITI 1 460 155 2598.8 12.8 26.7 82.2 71.1 0.20 IUU 1 275 275 4611.0 12.8 26.7 82.2 71.1 0.36 /W 1 110 50 838.4 12.8 26.7 82.2 71.1 0.07 WW 1 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95											1B-17	
TT			295	190	3185	12.8					1B-13	
JUU 1 275 275 4611.0 12.8 26.7 82.2 71.1 0.36 NV 1 110 50 838.4 12.8 26.7 82.2 71.1 0.07 NWW 1 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95							26.7				1AC2	
AV 1 110 50 838.4 12.8 26.7 82.2 71.1 0.07 INW 1 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95					4611.0						1B-10	
NW 1 115 115 1928.0 12.8 26.7 82.2 71.1 0.16 XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95			110								1B-06	
XXX 1 730 730 12239.5 12.8 26.7 82.2 71.1 0.95						12.8					18C2	
				730							1B-04	
MY 1 200 155 2598.8 12.8 26.7 82.2 71.1 0.20 222 1 260 85 1425.1 12.8 26.7 82.2 71.1 0.11	ΥΥ	1	200	155	2598.8	12.8	26.7				1B-01	

AIR	TE	RMINAL	UNITS	- V.A.	V. –	R.H. &	C.V.	– R.H.	SCHE	DULE
			MIN	TOTAL	All	R TEMP.	WATER	R TEMP.	WATER	T'STAT
MARK	AHU	DESIGN	SET PT.	CAPACITY	ENT.	LVG.	ENT.	LVG.	FLOW	LOCATION
		L / sec	L / sec	Watt	С	C	С	С	M^3/Hr	RM #
A	2	270	85	1425.1	12.8	26.7	82.2	71.1	0.11	2A-01
В	2	210	125	2095.9	12.8	26.7	82.2	71.1	0.16	2A-14
CDD	2	75	35	586.7	12.8	26.7	82.2	76.6	0.09	2A-02
E	2	145	70	1173.7	12.8	26.7	82.2	71.1	0.09	2A-03
F		130	50	838.4	12.8	26.7	82.2	71.1	0.07	2A-04
G	2	160 365	70 300	1173.7 5030.0	12.8 12.8	26.7 26.7	82.2	71.1	0.09	2A-05 2A-12
H	2	160	70	1173.7	12.8	26.7	82.2 82.2	71.1	0.09	2A-12 2A-06
	2	160	70	1173.7	12.8	26.7	82.2	71.1	0.09	2A-08 2A-07
j	2	295	240	4024.0	12.8	26.7	82.2	71.1	0.32	2A-11
K	2	160	70	1173.7	12.8	26.7	82.2	71.1	0.09	2A-08
L	2	210	100	2265.9	12.8	31.6	82.2	71.1	0.18	2AC1
М	2	160	70	1173.7	12.8	26.7	82.2	71.1	0.09	2A-09
N	2	285	255	4275.4	12.8	26.7	82.2	71.1	0.34	2C-01
0	2	170	70	1173.7	12.8	26.7	82.2	71.1	0.09	2C-02
Р	2	215	90	1509.0	12.8	26.7	82.2	71.1	0.11	20-03
Q	2	200	70	1174.0	12.8	26.7	82.2	71.1	0.09	2C-04
R	2	90	40	670.8	12.8	26.7	82.2	76.6	0.11	2C-22
S	2	200	70	1173.0	12.8	26.7	82.2	71.1	0.09	2C-06
T	2	205	205	3437.3	12.8	26.7	82.2	71.1	0.27	2C-08
V	2	200	70	1173.0	12.8	26.7	82.2	71.1	0.09	2C-09
V	2	140	95	1592.8	12.8	26.7	82.2	71.1	0.11	2C-19
X	2	215	215	3604.9	12.8	26.7	82.2	71.1	0.27	2C-10
├ Ŷ ┼	2	260 150	260 150	4359.2	12.8	26.7	82.2	71.1	0.34	2C-12
$\frac{1}{z}$	2	220	220	2515.0 3688.7	12.8 12.8	26.7 26.7	82.2 82.2	71.1	0.20	2C-13 2C-16
Ā	2	560	560	9389.3	12.8	26.7	82.2	71.1	0.30	2C-16
BB	2	200	105	1760.4	12.8	26.7	82.2	71.1	0.73	2C-17 2C-14
CC	2	265	0	0.0	12.8	12.8	N/A	N/A	0.00	2C-14 2C-18
DD	2	115	50	838.4	12.8	26.7	82.2	71.1	0.07	2B-21
EE	2	215	85	1425.1	12.8	26.7	82.2	71.1	0.11	2B-23
FF	2	70	40	670.8	12.8	26.7	82.2	76.6	0.11	2B-19
GG	2	145	145	2431.2	12.8	26.7	82.2	71.1	0.18	2B-25
НН	D	E	L E	T E	D				*	
- 11	2	225	85	1425.1	12.8	26.7	82.2	71.1	0.11	2B-18
JJ	2	240	175	2934.1	12.8	26.7	82.2	71.1	0.23	2B-15
KK	2	260	0	0.0	12.8	12.8	N/A	N/A	0.00	2B-13
LL	2	140	80	1341.3	12.8	26.7	82.2	71.1	0.11	2B-01
MM	2	160	95	1592.8	12.8	26.7	82.2	71.1	0.11	28-03
NN OO	D	E	L E	T E	D	 				
PP	2 2	185 70	95 75	1592.8	12.8	26.7	82.2	71.1	0.11	28-07
QQ	2	80	35 45	586.7 754.6	12.8 12.8	26.7	82.2	76.6	0.09	2B-08
RR	2	155	115	1928.0	12.8	26.7 26.7	82.2 82.2	71.1 71.1	0.07 0.16	2B-10 2B-11
SS	2	45	45	754.6	12.8	26.7	82.2	71.1	0.16	2B-11 2BC1
π	2	155	85	1425.1	12.8	26.7	82.2	71.1	0.07	2D-03
υυ	2	500	215	3604.9	12.8	26.7	82.2	71.1	0.27	2D-03
W	2	180	140	2347.4	12.8	26.7	82.2	71.1	0.18	2DC2
WW	2	200	. 70	1173.7	12.8	26.7	82.2	71.1	0.09	2D-21
XX	2	300	110	1844.2	12.8	26.7	82.2	71.1	0.14	2D-20
YY	D	E	L E	T E	D					
ZZ	2	330	140	2347.4	12.8	26.7	82.2	71.1	0.18	2D-17
AAA	2	105	40	670.8	12.8	26.7	82.2	76.6	0.11	2D-15
BBB	2	135	50	838.4	12.8	26.7	82.2	71.1	0.07	2D-16
CCC	D	E 105	L E	TE	D					
DDD EEE	2	185	105	1760.4	12.8	26.7	82.2	71.1	0.14	2D-18
FFF	2	130	50	926.9	12.8	28.1	82.2	71.1	0.07	2D-11
GGG	2	125	55	922.3	12.8	26.7	82.2	71.1	0.07	2D-10
HHH	2	90 65	40 35	695.7 586.7	12.8	27.2	82.2	76.6	0.11	2D-09
III I	2	165	75	1257.5	12.8 12.8	26.7 26.7	82.2 82.2	76.6	0.09	2D-08
<u>;;;</u>	2	180	105	1760.4	12.8	26.7	82.2	71.1 71.1	0.09	2D-07 2D-18
KKK	D	E E	L E	T E	12.8 D	20.7	04.4	/ 1.1	U. 14	ZU-10
LLL	2	130	85	1425.1	12.8	26.7	82.2	71.1	0.11	2BC2
				20.1			٠٤.٨	(1.1	U. 1 1	2004