ROOM AIR BALANCE SCHEDULE

ROOM NO.	ROOM NAME	ROOM S.F.	INDIVIDUAL ROOM TEMP. CONTROL	SUPPLY: ROOM AIR FLOW: REQUIRED CFM	SUPPLY: ROOM AIR FLOW: REQUIRED AC	SUPPLY: ROOM AIR FLOW: FINAL NEW DESIGN CFM	SUPPLY: ROOM AIR FLOW: CURRENT /ACTUAL DESIGN CFM	SUPPLY: ROOM AIR FLOW: ORIGINAL DESIGN CFM	SUPPLY: # OF AIR DEVICES	SUPPLY: REHEAT COIL	SUPPLY: SUPPLY FAN	RETURN: RETURN OR EXHAUST [R/E]	RETURN: ROOM AIR FLOW CFM	RETURN: # OF DEVICES	RETURN: AIR DEVICE MARK	RETURN: RETURN OR EXHAUST FAN	RETURN: ROOM AIR FLOW: CV	RETURN: ROOM AIR FLOW: VAV	RETURN: ROOM AIR BALANCE	NET INFILTRATION CFM	NET EXFILTRATION CFM	REMARKS
200C-1	CORRIDOR	657	N	394	4/2	-***	0	0		–	AH-1	E	335			EF-__	X		+		59	
200C-2	CORRIDOR	300	N	180	4/2	-***	0	0		–	AH-1	E	153			EF-__	X		+		17	
200C-3	CORRIDOR	243	N	146	4/2	-***	0	0		–	AH-1	E	124			EF-__	X		+		18	
203	STORAGE	113	N	68	4/–	70	0	0		–	AH-1	E	58			EF-__	X		+		10	
204	STORAGE	110	N	66	4/–	70	0	300		RH-17	AH-1	E	56			EF-__	X		+		10	
205	OFFICE	202	Y	121	4/2	125**	394	0		RH-12	AH-1	E	121			EF-__	X		0			
206	OFFICE	213	Y	128	4/2	130**	0	0		–	AH-1	E	128			EF-__	X		0			
208	MECHANICAL	284	N	–	–	170	172	250		RH-17	AH-1	E	–			EF-__	X		0			
209	PATIENT CHECK-IN	127	Y	98	6/2	120	68	280		RH-18	AH-1	E	115			EF-__	X		–	17		
210	WAITING	341	Y	260	6/2	475	316	845		RH-19	AH-1	E	307			EF-__	X		–	47		
21	BREAK ROOM	401	Y	205	4/2	265	0	0		–	AH-1	E	241			EF-__	X		–	36		
210-1	CLEAN STORAGE	18	N	10	4/–	-***	0	0		–	AH-1	E	8			EF-__	X		+			
210-2	CHANGING	31	Y	19	4/–	-***	0	0		–	AH-1	E	19			EF-__	X		0			
210-3	RESTROOM	43	N	55	10/–	-***	0	0		–	AH-1	E	65			EF-__	X		--	10		
211C	PROCEDURE	243	Y	607	15/3	610	519	845		RH-19	AH-1	E	515			EF-__	X		+		92	
211C-1	WORK ROOM	185	Y	111	4/2	155	268	845		RH-19	AH-1	E	111			EF-__	X		0			
212	OFFICE	252	Y	151	4/2	270	252	450		RH-19	AH-1	E	151			EF-__	X		0			
213	OFFICE	208	Y	125	4/2	125	404	415		RH-16	AH-1	E	125			EF-__	X		0			
214	CYSTO	263	Y	658	15/3	660	305	450		RH-15	AH-1	E	559			EF-__	X		+		99	
214-2	CLEAN CORRIDOR	78	N	70	6/2	80	165	550		RH-15	AH-1	E	60			EF-__	X		+		15	
214-3	SCRUB	126	Y	151	8/2	155	122	230		RH-14	AH-1	E	106			EF-__	X		++		45	
215	CYSTO	296	Y	740	15/3	740	325	450		RH-14	AH-1	E	629			EF-__	X		+		111	
215C-3	PROFUSION	97	Y	74	6/2	90	0	200		RH-13	AH-1	E	88			EF-__	X		–	14		
231	WAITING	345	Y	264	6/2	310	131	0		RH-12	AH-1	E	310			EF-__	X		–	46		
			TOTAL CFM	4701		4620(5000)	3441	6110				TOTAL CFM	4384						TOTAL CFM	170	476	

NOTES:

* CURRENT AHU PROVIDES 5,580 CFM FROM SUPPLY DISCHARGE (38% DUCT LOSS).
** CONFIRM AIRFLOW/DUCT TO THESE SPACES.
*** AREAS NOT INCLUDED IN FINAL DESIGN AS NOT SERVICED WITH DISTRIBUTION DUCTWORK CURRENTLY.

NOTES

A. REFER TO DWG. M-001 FOR MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES RELATED TO THIS SHEET.

B. ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING OR OTHER CONSTRUCTION SHALL BE RELOCATED AS REQUIRED FOR ALL DEMOLITION AND INSTALLATION WORK.

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	AIR FLOW: SUPPLY CFM	AIR FLOW: MIN OA CFM	AIR FLOW: RETURN CFM	SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	CHILLED WATER COIL MARK	REDUNDANT COOLING COIL MARK	HUMIDIFIER MARK	WEIGHT (LBS)	REMARKS
AH-1	AH-1	GU	AH-1	CV	5,500	5,500	0	SF1, SF2	N/A	N/A	PF-1&PF-2	AF-1	–	–	HC-1	CC-1	–	SH-1	3,670	

SOUND DATA	63	125	250	500	1000	2000	4000	8000
	89	81	79	88	82	82	77	66

NOTES:

1. BASIS OF DESIGN IS HUNT-AIR.

CHILLED WATER COOLING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	AIR FLOW CFM	MAX. FACE VELOCITY FPM	EAT Db/Wb °F	LAT Db/Wb °F	TOTAL CAPACILTY MBH	SENSIBLE CAPACITY MBH	CHILLED WATER: FLOW GPM	CHILLED WATER: EWT °F	CHILLED WATER: LWT °F	CHILLED WATER: WPD FT	REMARKS
CC-1	AH-1	GU	AH-1	5,800	272	92/75	56.6/51.3	399.1	225.3	79.8	45	55	9.79	NOTE 1

NOTES:

1. COOLING COIL FAN SPACING SHALL NOT EXCEED 132 FINS PER FOOT (400 FINS PER METER).

FAN SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	TSP IN. W.C.	FAN: FAN	FAN: WHEEL	FAN: CLASS	FAN: ARRANGEMENT, ROTATION, AND DISCHARGE	FAN: DIAMETER IN	FAN: MIN. % EFF	FAN: DRIVE	FAN: FAN MAX. RPM	MOTOR ELECTRICAL: NOMINAL POWER BHP	MOTOR ELECTRICAL: NOMINAL POWER HP	MOTOR ELECTRICAL: PHASE	MOTOR ELECTRICAL: VOLT	MOTOR ELECTRICAL: RPM	MOTOR ELECTRICAL: SPEED CONTROL	CONTROL SEQUENCE	REMARKS
SF-1	AH-1	GU	SUPPLY	2,756	7.5	PLENUM	16.5	CLASS H		16.5	64	DIR	3946	4.71	5	3	208	2986	VSD	MH502	NOTE 1, 2
SF-2	AH-1	GU	SUPPLY	2,756	7.5	PLENUM	16	CLASS H		16	64	DIR	3946	4.71	5	3	208	2986	VSD	MH502	NOTE 1, 2

NOTES:

1. (2) FAN ARRAY.
2. VSD FACTORY INSTALLED.

STEAM HUMIDIFIER SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	HUMIDIFIER TYPE	AIR FLOW CFM	MINIMUM # OF MANIFOLDS	EAT Db °F	EAT ASS.DIST. IN	LAT HUMIDITY RH	SOURCE	STEAM: PRESS ENT VALUE PSIG	STEAM: PRESS ENT HUMIDIFIER PSIG	STEAM: FLOW LBS/HR	CONTROL TYPE	REMARKS
SH-1	AH-1	GU	STEAM	5,500	1	55	17.3	60.1	PLANT	30	10	138.4	MODULATING	

AIR FILTER SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW CFM	APD: INTIAL IN	APD: CHANGEOVER IN	HOUSING TYPE	CARTRIDGES: #	CARTRIDGES: SIZE IN	CARTRIDGES: ARRANGEMENT	REMARKS
PF-1	AH-1	GU	SUPPLY	7	5,500	0.2	0.4	FRAME			MANUFACTURER	
PF-2	AH-1	GU	SUPPLY	11	5,500	0.2	0.6	FRAME			MANUFACTURER	
AF-1	AH-1	GU	SUPPLY	14	5,500	0.2	0.75	FRAME			MANUFACTURER	

STEAM HEATING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW CFM	MAX. FACE VELOCITY FPM	APD IN WG	TEMPERATURE: EAT °F	TEMPERATURE: LAT °F	TOTAL MIN. CAPACITY MBH	STEAM: ENT CONT VALUE PSIG	STEAM: ENT COIL PSIG	STEAM: FLOW LBS/HR	STEAM: STEAM TRAP MARK	STEAM: STEAM TRAP LBS/HR	REMARKS
HC-1	AH-1	GU	AH-1	PREHEAT	5,500	443	0.16	-10	83	541.5	50	30	583.2	1-TP-2	750	
RH-12	200C-3	21	AH-1	REHEAT	650	500	0.2	55	95	31.4	30	25	33.9	1-TP-8	50	
RH-14	214-3	215	AH-1	REHEAT	740	500	0.2	55	95	44.2	30	25	47.7	1-TP-3	50	16x10
RH-15	214-3	215-2	AH-1	REHEAT	995	500	0.2	55	95	44.2	30	25	47.7	1-TP-4	50	16x10
RH-16	212	209	AH-1	REHEAT	650	500	0.2	55	95	31.4	30	25	33.9	1-TP-5	50	12x10
RH-17	203-D	204	AH-1	REHEAT	650	500	0.2	55	95	31.4	30	25	33.9	1-TP-6	50	12x10
RH-18	203-D	204	AH-1	REHEAT	650	500	0.2	55	95	31.4	30	25	33.9	1-TP-7	50	12x10

AIR DEVICE SCHEDULE

MARK	TYPE	AIR FLOW: MIN. CFM	AIR FLOW: MAX. CFM	MAX APD IN WG	MOUNTING	PANEL/FRAME SIZE IN x IN	NECK SIZE IN	NC	DAMPER	FINISH	REMARKS
CD-1	SUPPLY	100	800	0.15	LAY-IN	24 X 24	VARIES	<35	YES	WHITE	3-CONE FACE

CONTROL VALVE SCHEDULE

MARK	LOCATION	TYPE	SERVICE	ARRANGEMENT	CONTROL	SIZE	REMARKS
RH-12	RH-12	MOD	STEAM	2-WAY	TEMP		
RH-13	RH-13	MOD	STEAM	2-WAY	TEMP		
RH-14	RH-14	MOD	STEAM	2-WAY	TEMP		
RH-15	RH-15	MOD	STEAM	2-WAY	TEMP		
RH-16	RH-16	MOD	STEAM	2-WAY	TEMP		
RH-17	RH-17	MOD	STEAM	2-WAY	TEMP		
RH-18	RH-18	MOD	STEAM	2-WAY	TEMP		
RH-19	RH-19	MOD	STEAM	2-WAY	TEMP		
V-1	AH-1	O/C	STEAM	2-WAY	TEMP		
V-2	AH-1	MOD	CHW	2-WAY			
V-3	AH-1	O/C	STEAM	2-WAY	HUMIDITY		
V-4	AH-1	MOD	STEAM	2-WAY	HUMIDITY		

HVAC DESIGN DATA

DESIGN CONDITIONS	SUMMER: TEMP °F	SUMMER: WET BULB TEMP °F	SUMMER: % HUMIDITY	WINTER: TEMP °F	WINTER: DEWPOINT TEMP °F	WINTER: % HUMIDITY	LOWEST AVERAGE ANNUAL DEWPOINT
BUFFALO	92	75	48%	-10	18.7	–	16.7

FULLY SPRINKLERED
BID DOCUMENTS
FOR CONSTRUCTION

Revisions	Date
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INFECTION CONTROL	DATE	MANAGER	DATE
SAFETY OFFICER	DATE	CHIEF OF STAFF	DATE

MEDICAL CENTER DIRECTOR DATE
ASSOCIATE MEDICAL CENTER DIRECTOR DATE

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Project Title: BUFFALO GU AHU
Date: 09-07-2017
Station No.: 528
Building Number: 1
Checked: KLP
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