

file path
9/25/2014 2:53:04 PM
one-eighth inch = one foot

one-quarter inch = one foot

three-eighths inch = one foot

one-half inch = one foot

three-quarter inch = one foot

one inch = one foot

one and one-half inches = one foot

three inches = one foot

ROOM AIR BALANCE QUAD B PHASE III																					
ROOM NO.	ROOM NAME	AHU NO.	TERMINAL UNIT	THERMOSTAT	COOLING LOADS		HEATING LOAD (BTU/h)	AIR CHANGES		SUPPLY			RETURN OR EXHAUST				ROOM AIR FLOW	ROOM AIR BALANCE	Net Infiltration (CFM)	Net Exfiltration (CFM)	REMARKS
					COOLING LOAD LATENT (BTU/h)	COOLING LOAD SENSIBLE (BTU/h)		ACH	REQUIRED ACH	ROOM AIR FLOW (CFM)	# OF AIR DEVICES	SUPPLY FAN	Space Return/Exhaust	RETURN AIR FLOW (CFM)	EXHAUST AIRFLOW (CFM)	# OF AIR DEVICES					
3B-127	EXISTING MECHANICAL EQUIPMENT	41-AHU15	41-TU09-15-13	Yes	0	55263	0		6	1880	1	41-SF15	Return	1880	0	1	41-RF15	CV	0	0	
3B-136	EXISTING HALL	41-AHU15	41-TU12-15-3	No	0	2573	2581		4	400	1	41-SF15	Return	0	0	0	41-RF15	CV	+	0	400
3B-136A	EXISTING TELEPHONE CLOSET	41-AHU15	41-TU12-15-3	No	0	3539	0		0	0	1	41-SF15	Return	200	0	1	41-RF15	CV	-	200	0
3B-136B	EXISTING SIGNAL CLOSET	41-AHU15	41-TU12-15-3	No	0	3542	0		0	0	1	41-SF15	Return	200	0	1	41-RF15	CV	-	200	0
3B-136C	EXISTING ELECTRICAL CLOSET	41-AHU15	41-TU12-15-3	Yes	0	35072	0		0	1315	1	41-SF15	Return	1315	0	1	41-RF15	CV	0	0	0
3B-320A	LOUNGE	41-AHU15	41-TU09-15-2	Yes	1000	15633	2990	30.1	4	856	2	41-SF15	Exhaust (G)	0	954	3	41-EF45	CV	-	98	0
3B-320B	CONFERENCE	41-AHU15	41-TU08-15-4	Yes	3000	12041	3401	18.7	4	610	2	41-SF15	Return	610	0	2	41-RF15	VAV	0	0	0
3B-321	ICU BED 10 ISOLATION ANTE	41-AHU15	41-SV-15-2	Yes	200	2506	3973	10.5	10	140	1	41-SF15	Exhaust (S)	0	160	1	41-EF47	CV	-	20	0
3B-321A	ICU BED 10 ISOLATION ROOM	41-AHU15	41-SV-15-2	No	200	10778	16803	13.6	12	564	3	41-SF15	Exhaust (S)	0	663	3	41-EF47	CV	-	99	0
3B-323	STAFF TLT./SHOWER	41-AHU15	41-TU09-15-1	No	200	1800	2200	10.1	10	0	0	41-SF15	Exhaust (G)	0	90	1	41-EF45	CV	--	90	0
3B-324	ON CALL	41-AHU15	41-TU05-15-2	No	200	2224	1610	10.2	4	100	1	41-SF15	Return	100	0	1	41-RF15	VAV	0	0	0
3B-325	ON CALL	41-AHU15	41-TU05-15-2	Yes	200	2224	532	9.7	4	144	1	41-SF15	Return	144	0	1	41-RF15	VAV	0	0	0
3B-327	ICU BED 11	41-AHU15	41-TU08-15-8	Yes	200	9078	8628	11.5	6	510	2	41-SF15	Return / Exhaust(G)	330	105	3	41-RF15 / 41-EF45	CV	+	0	75
3B-328A	MEDS	41-AHU15	41-TU04-15-2	Yes	200	2122	970	11.6	4	101	1	41-SF15	Return	87	0	1	41-RF15	VAV	+	0	14
3B-329	ICU BED 12	41-AHU15	41-TU08-15-9	Yes	200	8973	8234	12.2	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-330	EQ. ALCOVE	41-AHU15	41-TU09-15-1	No	0	366	336	3.9	4	12	0	41-SF15	Return	0	0	0	41-RF15	VAV	+	0	12
3B-330A	NOURISH	41-AHU15	41-TU09-15-1	No	200	11791	1445	82.3	6	0	0	41-SF15	Exhaust (G)	0	718	2	41-EF45	CV	--	718	0
3B-331	ICU BED 13	41-AHU15	41-TU08-15-10	Yes	200	8974	8245	12.1	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-332	SOILED UTILITY	41-AHU15	41-TU12-15-4	No	0	1713	2672	10.1	10	0	0	41-SF15	Exhaust (G)	0	96	1	41-EF45	CV	--	96	0
3B-333	ICU BED 14	41-AHU15	41-TU08-15-11	Yes	200	8974	8244	12.2	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-334	CLEAN UTILITY	41-AHU15	41-TU12-15-4	No	0	3656	1037	26.3	4	250	1	41-SF15	Return	217	0	1	41-RF15	CV	+	0	33
3B-335	ICU BED 15	41-AHU15	41-TU08-15-12	Yes	200	8948	8140	12.4	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-336	STERILE SUPPLY	41-AHU15	41-TU05-15-7	Yes	200	4418	2582	13.3	4	268	1	41-SF15	Exhaust (G)	0	233	1	41-EF45	CV	+	0	35
3B-337	ICU BED 16 BAR	41-AHU15	41-TU08-15-13	Yes	200	8932	8078	12	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-338	NURSE STATION	41-AHU15	41-TU06-15-9	Yes	1200	6538	2987	17.9	6	333	1	41-SF15	Return	347	0	1	41-RF15	VAV	0	14	0
3B-338A	MEDS	41-AHU15	41-TU04-15-3	Yes	200	2158	1021	11	4	101	1	41-SF15	Return	87	0	1	41-RF15	VAV	+	0	14
3B-339	PHYS. WORKROOM	41-AHU15	41-TU06-15-8	Yes	600	6906	3689	15.5	4	348	1	41-SF15	Return	348	0	1	41-RF15	VAV	0	0	0
3B-340	PUBLIC TOILET	41-AHU15	41-TU10-15-2	No	400	1526	2226	10.1	10	0	0	41-SF15	Exhaust (G)	0	80	1	41-EF45	CV	--	80	0
3B-341	LOCKER RM CO-ED	41-AHU15	41-TU08-15-5	Yes	1600	8232	12077	14.1	10	600	2	41-SF15	Exhaust (G)	0	694	3	41-EF45	CV	--	94	0
3B-341A	STAFF TOILET	41-AHU15	41-TU08-15-5	No	200	1347	2123	9.7	10	0	0	41-SF15	Exhaust (G)	0	78	1	41-EF45	CV	--	78	0
3B-341B	STAFF TOILET	41-AHU15	41-TU08-15-5	No	200	1347	2123	9.9	10	0	0	41-SF15	Exhaust (G)	0	78	1	41-EF45	CV	--	78	0
3B-343	ICU BED 17	41-AHU15	41-TU08-15-14	Yes	200	8981	8267	12.2	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-344	EQ. ALCOVE	41-AHU15	41-TU12-15-4	No	0	799	731	4	4	27	0	41-SF15	Return	0	0	0	41-RF15	VAV	0	0	27
3B-345	ICU BED 18	41-AHU15	41-TU08-15-15	Yes	200	8961	8190	11.8	6	510	2	41-SF15	Return / Exhaust(G)	330	105	2	41-RF15 / 41-EF45	CV	+	0	75
3B-346	HK	41-AHU15	41-TU12-15-4	No	0	1231	2023	10	10	0	0	41-SF15	Exhaust (G)	0	71	1	41-EF45	CV	--	71	0
3B-350	ANESTH SECY/WORKING AREA	41-AHU15	41-TU06-15-10	Yes	400	7355	4341	7.2	6	354	2	41-SF15	Return	354	0	2	41-RF15	VAV	0	0	0
3B-354	ANESTH OFFICE	41-AHU15	41-TU05-15-5	No	200	2850	2014	6.7	4	123	1	41-SF15	Return	123	0	1	41-EF45	VAV	0	0	0
3B-355	ANESTH OFFICE	41-AHU15	41-TU05-15-5	Yes	200	2964	2176	6.7	4	133	1	41-SF15	Return	133	0	1	41-EF45	VAV	0	0	0
C3-28	CORRIDOR BETWEEN B & C SOUTH	41-AHU15	41-TU06-15-19	Yes	200	6500	3000	4.1	4	350	2	41-SF15	Return	310	0	2	41-RF15	CV	+	0	40
C3-30	CORRIDOR C3-30 WEST	41-AHU15	41-TU12-15-4	Yes	200	10616	9592	5.1	4	906	4	41-SF15	Return	480	0	2	41-RF15	CV	+	0	426
C3-30	CORRIDOR C3-30 EAST	41-AHU15	41-TU09-15-1	No	200	7620	6944	6.9	4	626	2	41-SF15	Return	250	0	1	41-RF15	CV	+	0	376
C3-30A	LINEN	41-AHU15	41-TU12-15-4	No	0	263	381	4.3	4	15	1	41-SF15	Return	0	0	0	41-RF15	CV	+	0	15
C3-31B	CORRIDOR	41-AHU15	41-TU12-15-4	No	200	2560	2364	4	4	87	1	41-SF15	Return	150	0	1	41-RF15	CV	-	63	0
C3-32C	CORRIDOR	41-AHU15	41-TU09-15-1	No	200	1726	3643	9.3	4	125	1	41-SF15	Return	0	0	0	41-RF15	CV	+	0	125

ROOM AIR BALANCE QUAD B PHASE IV																						
ROOM NO.	ROOM NAME	AHU NO.	TERMINAL UNIT	THERMOSTAT	COOLING LOADS		HEATING LOAD (BTU/h)	AIR CHANGES		SUPPLY			RETURN OR EXHAUST				ROOM AIR FLOW	ROOM AIR BALANCE	Net Infiltration (CFM)	Net Exfiltration (CFM)	REMARKS	
					COOLING LOAD LATENT (BTU/h)	COOLING LOAD SENSIBLE (BTU/h)		ACH	REQUIRED ACH	ROOM AIR FLOW (CFM)	# OF AIR DEVICES	SUPPLY FAN	Space Return/Exhaust	RETURN AIR FLOW (CFM)	EXHAUST AIRFLOW (CFM)	# OF AIR DEVICES						RETURN OR EXHAUST FAN
3A-161	PUBLIC TOILET	41-AHU15	41-TU12-15-2	No	200	1431	2233	13.4	10	0	0	41-SF15	Exhaust (G)	0	100	1	41-EF45	CV	--	100	0	100 CFM from 3A-310
3A-162	CONSULT	41-AHU15	41-TU06-15-2	Yes	600	8151	2661		4	474	2	41-SF15	Return	400	0	2	41-RF15	VAV	+	0	74	80 CFM to 3A-310
3A-163	PUBLIC TOILET	41-AC14		No	200	1575	1106	12.1	10	0	0		Exhaust (G)	0	81	1	41-EF43	CV	--	81	0	3A-311 is part of the 3rd Floor Quad A system by Firewall Separation
3A-310	WAITING	41-AHU15	41-TU12-15-2	Yes	9400	31356	18708	11.5	10	1650	5	41-SF15	Return	1650	0	6	41-RF15	CV	-	0	0	80 CFM to 3A-161, 100 CFM from C3-27, 100 CFM TO 3A-162
3B-107	ANESTH OFFICE	41-AHU15	41-TU05-15-8	No				4.4	4	240	1	41-SF15	Return	240	0	1	41-RF15	VAV	+	0	0	Existing Office (Interstitial Work Only)
3B-226	EQUIPMENT STORAGE	41-AHU15	41-TU05-15-1	Yes	0	5314	4080	9.7	4	243	1	41-SF15	Return	211	0	1	41-RF15	CV	+	0	32	32 CFM to C3-32B
3B-302	EQ. ALCOVE	41-AHU15	41-TU10-15-2	No	0	3526	195	112.2	4	0	0	41-SF15	Return	200	0	0	41-RF15	CV	-	200	0	200 CFM from C3-29 West
3B-303	RESPIRATORY THERAPY	41-AHU15	41-TU06-15-1	Yes	200	6007	8667	6.5	6	333	1	41-SF15	Return	292	0	1	41-RF15	CV	+	0	41	41 CFM to C3-29 West
3B-304	NURSE STATION	41-AHU15	41-TU06-15-4	Yes	1200	6912	3672	16.5	6	340	1	41-SF15	Return	354	0	1	41-RF15	VAV	0	14	0	14 CFM from 3B-304A
3B-304A	MEDS	41-AHU15	41-TU04-15-5	Yes	200	2030	839	13.4	4	101	1	41-SF15	Return	87	0	1	41-RF15	VAV	+	0	14	14 CFM to 3B-304A
3B-305	ICU BED 2	41-AHU15	41-TU06-15-12	Yes	200	6200	8338	6.8	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 West
3B-306	FAMILY CONSULT	41-AHU15	41-TU04-15-6	Yes	600	2852	1544	9.1	4	128	1	41-SF15	Return	128	0	1	41-RF15	VAV	0	0	0	
3B-307	ICU BED 3 BAR.	41-AHU15	41-TU06-15-13	Yes	200	6097	8157	6.7	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 West
3B-308	CLEAN UTILITY	41-AHU15	41-TU10-15-2	No	0	3598	788	34.7	4	250	1	41-SF15	Return	217	0	1	41-RF15	CV	+	0	33	33 CFM to C3-39 West
3B-309	ICU BED 4	41-AHU15	41-TU06-15-14	Yes	200	6088	8139	6.8	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 West
3B-310	SOILED UTILITY	41-AHU15	41-TU10-15-2	No	0	1431	2233	10	10	0	0	41-SF15	Exhaust (G)	0	80	1	41-EF45	CV	--	80	0	80 CFM from C3-29 West
3B-311	ICU BED 5	41-AHU15	41-TU06-15-15	Yes	200	6129	8248	6.8	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 West
3B-312	EQUIPMENT STORAGE	41-AHU15	41-TU05-15-9	Yes	0	6050	5659	7.4	4	256	1	41-SF15	Return	222	0	1	41-RF15	CV	+	0	34	34 CFM to C3-29 West
3B-313	ICU BED 6	41-AHU15	41-TU06-15-16	Yes	200	6130	8250	6.7	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 East
3B-314	EQ. ALCOVE	41-AHU15	41-TU10-15-1	No	0	356	327	0	4	0	0	41-SF15	Return	0	0	0	41-RF15	VAV	+	0	0	12 CFM from C3-29 East
3B-314A	NOURISH	41-AHU15	41-TU10-15-1	No	200	11794	1461	80.8	6	0	0	41-SF15	Exhaust (G)	0	718	2	41-EF45	CV	-	718	0	718 CFM from C3-29 East
3B-315	ICU BED 7	41-AHU15	41-TU06-15-17	Yes	200	6130	8250	6.8	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 East
3B-316	NURSE STATION	41-AHU15	41-TU06-15-11	Yes	1200	7435	4634	13.5	6	386	1	41-SF15	Return	0	0	0	41-RF15	VAV	+	0	386	110 CFM to C3-29A, 225 CFM to 3B-320A
3B-316A	MEDS	41-AHU15	41-TU04-15-1	Yes	200	2151	1011	10.9	4	101	1	41-SF15	Return	87	0	1	41-RF15	VAV	+	0	14	14 CFM to C3-29A
3B-317	ICU BED 8	41-AHU15	41-TU06-15-18	Yes	200	6251	8399	6.7	6	284	2	41-SF15	Return / Exhaust(G)	166	77	2	41-RF15 / 41-EF45	CV	+	0	41	41 CFM to C3-29 East
3B-318	OFFICE HEAD NURSE	41-AHU15	41-TU04-15-7	Yes	400	3064	1961	7.1	4	128	1	41-SF15	Return	128	0	1	41-RF15	VAV	0	0	0	
3B-319	ANTE	41-AHU15	41-SV-15-1	No	200	2800	4439		10	160	1	41-SF15	Exhaust (S)	0	180	1	41-EF47	CV	-	20	0	120 CFM from C3-32A , 100 CFM to 3B-319A
3B-319A	ICU BED 9 ISOLATION BAR.	41-AHU15	41-SV-15-1	Yes	200	19212	22513		12	764	4	41-SF15	Exhaust (S)	0	864	4	41-EF47	CV	-	100	0	100 CFM from 3B-319 (ANTE ROOM)
3B-320C	PHYS. WORKROOM	41-AHU15	41-TU06-15-7	Yes	600	5359	2566	17.6	4	276	1	41-SF15	Return	276	0	1	41-RF15	VAV	0	0	0	
3B-328	NURSE STATION	41-AHU15	41-TU06-15-3	Yes	1200	7431	4626	8.4	6	350	1	41-SF15	Return	364	0	1	41-RF15	VAV	0	14	0	14 CFM from 3B-328A
3B-351A	OFFICE	41-AHU15	41-TU05-15-3	Yes	400	4329	3849	6.7	4	235	1	41-SF15	Return	235	0	1	41-RF15	VAV	0	0	0	
3B-352	ANESTH OFFICE	41-AHU15	41-TU05-15-6	Yes	200	2955	2207	6.7	4	135	1	41-SF15	Return	135	0	1	41-RF15	VAV	0	0	0	
3B-353	ANESTH OFFICE CHIEF	41-AHU15	41-TU05-15-4	Yes	200	4552	4170	6.4	4	254	2	41-SF15	Return	254	0	1	41-RF15	VAV	0	0	0	Started Phase 4/Finished in Phase 5
C3-29	CORRIDOR C3-29 EAST	41-AHU15	41-TU10-15-1	Yes	200	9203	8402	13.4	4	1032	4	41-SF15	Return	340	0	2	41-RF15	CV	+	0	692	41 CFM from 3B-313/315/317, 718 to 3B-314A
C3-29A	CORRIDOR	41-AHU15	41-TU06-15-11	No	0	941	1031	14.4	4	0	0	41-SF15	Return	100	0	1	41-RF15	CV	-	100	0	110 CFM from 3B-316, 14 CFM from 3B-316A
C3-29B	X-RAY ALCOVE	41-AHU15	41-TU09-15-1	No	0	342	313	0	4	0	0	41-SF15	Return	0	0	0	41-RF15	VAV	0	0	0	11 CFM from C3-32B
C3-31A	CORRIDOR	41-AHU15	41-TU10-15-2	No	200	3216	2910	13.2	4	352	1	41-SF15	Return	100	0	1	41-RF15	CV	+	0	252	15 CFM from C3-31D, 205 CFM to C3-31C
C3-31C	CORRIDOR	41-AHU15	41-TU10-15-2	No	200	1118	966	0	4	0	0	41-SF15	Return	0	0	0	41-RF15	CV	+	0	0	205 CFM from C3-31A, 80-CFM to 3B-340, 125 CFM to 3B-341
C3-31D	LINEN	41-AHU15	41-TU10-15-2	No	0	273	398	4.1	4	15	1	41-SF15	Return	0	0	0	41-RF15	CV	+	0	15	15 CFM to C3-31A
C3-32A	CORRIDOR	41-AHU15	41-TU10-15-1	No	200	2126	1962	10.8	4	192	1	41-SF15	Return	0	0	0	41-RF15	CV	+	0	192	120 CFM to 3B-319
C3-32B	CORRIDOR	41-AHU15	41-TU09-15-1	Yes	200	3947	3643	5.9	4	196	1	41-SF15	Return	250	0	1	41-RF15	CV	-	54	0	32 CFM from 3B-226, 75 CFM from 3B-327, 120 CFM to 3B-321