

EXISTING RETURN AIR REGISTER SCHEDULE					
DESIG.	MANUFACTURER & TYPE	CAPACITY (CFM)	SIZE (in.)	AREA FACTOR	REMARKS
RR-1	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	6" x 6"	0.20	-
RR-2	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	8" x 6"	0.29	
RR-3	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	8" x 8"	0.40	
RR-4	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	10" x 8"	0.52	
RR-5	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	10" x 10"	0.66	
RR-6	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	12" x 10"	0.88	
RR-7	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	12" x 12"	0.98	
RR-8	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	14" x 12"	1.15	
RR-9	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	14" x 14"	1.36	
RR-10	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	16" x 14"	1.55	
RR-11	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	16" x 16"	1.80	
RR-12	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	18" x 16"	2.00	
RR-13	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	18" x 18"	2.25	
RR-14	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	20" x 18"	2.50	
RR-15	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	20" x 20"	2.80	
RR-16	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	16" x 10"	1.10	
RR-17	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	22" x 20"	3.05	
RR-18	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	16" x 8"	0.87	
RR-19	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	36" x 12"	3.00	
RR-20	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	36" x 24"	6.00	
RR-21	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	18" x 10"	1.65	-
RR-22	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	22" x 16"	2.45	
RR-23	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	18" x 8"	0.98	
RR-24	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	26" x 18"	3.25	
RR-25	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	24" x 14"	2.35	
RR-26	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	18" x 26"	2.45	
RR-27	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	44" x 8"	2.45	
RR-28	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	48" x 18"	6.00	
RR-29	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	24" x 12"	2.00	
RR-30	TYPE 'A' RETURN REGISTER	AS NOTED ON PLANS	30" x 10"	2.10	
RR-31	TYPE 'B' 3/4" SLOT 2 SLO RETURN AIR LINEAR DIFFUSER	AS NOTED ON PLANS	AS SHOWN ON PLANS	-	
RR-32	TYPE 'B' 3/4" SLOT 4 SLO RETURN AIR LINEAR DIFFUSER	AS NOTED ON PLANS	AS SHOWN ON PLANS	-	
RR-33	TYPE 'A' RETURN GRILLE	AS NOTED ON PLANS	28" x 8"	1.55	

EXISTING SUPPLY AIR DIFFUSER SCHEDULE						
DESIG.	MANUFACTURER & TYPE	CAPACITY (CFM)	NECK SIZE (in.)	NECK VELOCITY (FPM)	NOISE CRITERIA (MAX. N.C.)	REMARKS
SA-1	TYPE 'A' DIFFUSER WITH ROUND NECK	1-80	4"ø	900	25	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SA-2	TYPE 'A' DIFFUSER WITH ROUND NECK	81-120	5"ø	900	26	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SA-3	TYPE 'A' DIFFUSER WITH ROUND NECK	121-160	6"ø	800	29	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SA-4	TYPE 'A' DIFFUSER WITH ROUND NECK	161-315	8"ø	900	25	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SA-5	TYPE 'A' DIFFUSER WITH ROUND NECK	316-435	10"ø	800	30	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SA-6	TYPE 'A' DIFFUSER WITH ROUND NECK	436-630	12"ø	800	29	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SA-7	TYPE 'A' DIFFUSER WITH ROUND NECK	631-860	15"ø	700	33	PANEL TYPE DIFFUSERS w/ 24" x 24" PANELS
SB-1	TYPE 'B' DIFFUSER WITH ROUND NECK	-	-	-	29	12" x 4" LIGHT TROFFER w/ 6"ø TOP INLET

EXISTING DUAL DUCT CONSTANT MIXING BOX SCHEDULE							
DESIGNATION	CAPACITY		MIN. REQ'D S.P. AT MAX. CFM	N.C.		INLET SIZE (mm)	DISCHARGE DUCT SIZE (mm)
	MIN. L/S	MAX. L/S		AT MIN. S.P.	AT 900mm S.P.		
DC-1	0	94	0.75	20	30	100ø	300 x 150
DC-2	95	140	0.75	20	30	125ø	300 x 150
DC-3	141	212	0.75	20	32	150ø	375 x 175
DC-4	213	353	0.75	21	35	200ø	625 x 175
DC-5	354	566	0.75	25	41	250ø	775 x 225
DC-6	567	1038	0.75	28	42	300ø	925 x 275

EXISTING AIR CONDITIONING, HEATING & VENTILATION UNIT SCHEDULE																																		
UNIT No.	APPLICATION	LOCATION	SIZE OF UNIT FAN	ARRANGEMENT & DRIVE	MOUNTING	FAN DATA				MOTOR DATA		STEAM HEATING COIL						TYPE & SIZE	SIZE	HOT WATER HEATING COIL														
						CFM	S.P. (In.)	O.V. (FPM)	BHP	RPM	HP	ELECT.	EAT °C	LAT °C	HTC. CAP. MBH	COIL FV FPM	COND. RATE 2500 P.S.I. STMA/HR.			AIR FRICTION	No. OF ROWS	CIRCUITS	SERIES	TUBE FACE	FACE AREA FT²	FACE VEL.	ENT. AIR °F/C	LVS. AIR °F/C	HTC. CAP. MBH	EWI °C	LWT °C	WATER GPM	AIR FRICTION IN. WG.	WATER PD FT. WG.
5-A	COLD DECK FOR LABORATORY SUPPLY UNIT	MECHANICAL ROOM No.2	HIGH PRESSURE CABINET FAN WITH 33" DWDI AIRFOIL FAN	COW-VB V-BELT	HORIZONTAL	29,180	6 1/2"	2298	41.1	1406	50	600/3/60	-17.7	11.7	1670.0	653	1,758	0.18	1-RW STEAM COIL WITH INTEGRAL FACE & BY-PASS DAMPER	NO HOT WATER HEATING COIL IN THIS UNIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-B	HOT DECK FOR LABORATORY SUPPLY UNIT	MECHANICAL ROOM No.2	HIGH PRESSURE FAN WITH 27" DWDI AIRFOIL FAN	CW-VB V-BELT	HORIZONTAL	22,700	5 1/2"	2654	31.1	1708	40	600/3/60	-11.5	21.1	1424.4	793	1,498	0.45	2-RW STEAM COIL WITH INTEGRAL FACE & BY-PASS DAMPER	NO HOT WATER HEATING COIL IN THIS UNIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1. REPLACE AND SUPPLY FAN MOTORS ON 5A, 5B WITH NEW PREMIUM EFF, VFD RATED MOTORS. INSTALL NEW VFD FOR EACH MOTOR																																		

1. REPLACE AND SUPPLY FAN MOTORS ON 5A, 5B WITH NEW PREMIUM EFF, VFD RATED MOTORS. INSTALL NEW VFD FOR EACH MOTOR

EXISTING FUME HOOD EXHAUST FAN SCHEDULE															
MARK	CFM (L/S)	S.P IN W.G (Pa)	MAX O.V FPM	FAN RPM	MOTOR		DRIVE	MANUFACTURER & TYPE	APPLICATION	LOCATION	CONTROL INTERLOCKING	MOUNTING	REMARKS	MAKE & MODEL	
					HP	ELEC.									
FF-1	900 (425)	1/2 (-/-)	1497	970	1/3	120/1/60	V-BELT	CAST IRON FUME FAN WITH TYPE F WHEEL	TYPE TS HOOD IN ROOM	ROOF OVER BLOCK A-2	DAMPER IN DUCT		TO BE REMOVED		
FF-2	900 (425)	1/2	1497	970	1/3	120/1/60	V-BELT	CAST IRON FUME FAN WITH TYPE F WHEEL	TYPE TS HOOD IN ROOM C-359	ROOF OVER BLOCK C-3	SUPPLY UNIT 5-A CONTENTIOUS		TO BE REMOVED		
FF-3	900 (425)	1/2	1497	970	1/3	120/1/60	V-BELT	CAST IRON FUME FAN WITH TYPE F WHEEL	TYPE TS HOOD IN ROOM C359	ROOF OVER BLOCK C-3	SUPPLY UNIT 5-A CONTENTIOUS		TO BE REMOVED		
FF-4	1095 (517)	1/2	1480	868	1/3	120/1/60	V-BELT	CAST IRON FUME FAN WITH TYPE F WHEEL	TYPE TS HOOD IN ROOM C357	ROOF OVER BLOCK C-3	RETURN DAMPER		TO BE REMOVED		
FF-5	1095 (517)	1.2 (300)	1480	868	1/3	120/1/60	V-BELT	CAST IRON FUME FAN WITH TYPE F WHEEL	TYPE TS HOOD IN ROOM C315	ROOF OVER BLOCK C-3	EXHAUST FAN EF-29		TO BE REMOVED		
FF-6	900 (425)	1.2 (300)	-	1810	1/2	120/1/60	V-BELT	CENTRIFUGAL BIFURCATOR	FUME HOOD ROOM 3045	PENTHOUSE	EXHAUST FAN EF-12	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	NEW M.K PLASTICS MODEL AXCL 1225	
FF-7	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 3042	PENTHOUSE	EXHAUST FAN EF-13	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-8	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 3041	PENTHOUSE	EXHAUST FAN EF-14	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-9	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 3040	PENTHOUSE	EXHAUST FAN EF-15	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-10	900 (425)	1.2 (300)	-	1810	1/2	120/1/60	V-BELT	CENTRIFUGAL BIFURCATOR	FUME HOOD ROOM 3040	PENTHOUSE	EXHAUST FAN EF-16	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	NEW M.K PLASTICS MODEL AXCL 1225	
FF-11	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 3036	PENTHOUSE	EXHAUST FAN EF-21,EF-22	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-12	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 3036	PENTHOUSE	EXHAUST FAN EF-21,EF-22	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-13	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 3036	PENTHOUSE	EXHAUST FAN EF-21,EF-22	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-14	900 (425)	1.2 (300)	-	1810	1/2	120/1/60	V-BELT	CENTRIFUGAL BIFURCATOR	BIOLOGICAL CABINET ROOM 3035	PENTHOUSE	EXHAUST FAN EF-18	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	NEW M.K PLASTICS MODEL AXCL 1225	
FF-15	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM C329	PENTHOUSE	EXHAUST FAN EF-18	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-16	750 (355)	5/8	-	-	1 1/2	600/3/60	DIRECT DRIVE	FUME FAN WITH INDUCTION VENTURI	TYPE TP HOOD IN ROOM C325	PENTHOUSE	RETURN AIR DAMPER	-	TO BE REMOVED	EXISTING	
FF-17	750 (355)	5/8	-	-	1 1/2	600/3/60	DIRECT DRIVE	FUME FAN WITH INDUCTION VENTURI	TYPE TP HOOD IN ROOM C319	PENTHOUSE	EXHAUST FAN EF-27	-	TO BE REMOVED	EXISTING	
FF-18	900 (425)	1/2	1497	970	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM 1108	PENTHOUSE	CANOPY EC-15 & EF-10	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-19	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM C251	PENTHOUSE	EXHAUST FAN EF-42	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-20	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM C247	PENTHOUSE	EXHAUST FAN EF-17	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-21	750 (355)	5/8	-	-	1 1/2	600/3/60	DIRECT DRIVE	FUME FAN WITH INDUCTION VENTURI	TYPE TP HOOD IN ROOM C247	PENTHOUSE	EXHAUST FAN EF-17	-	TO BE REMOVED	EXISTING	
FF-22	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	RADIOACTIVE HOOD IN ROOM C227	PENTHOUSE	SUPPLY UNIT 5-A CONTINUOUS OPER.	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-23	900 (425)	1/2	-	1620	1/3	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM C223	PENTHOUSE	RETURN DAMPER EXH. FAN EF-19	FAN SUPPLIED W/VERTICAL MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-24	750 (355)	5/8	-	-	1 1/2	600/3/60	DIRECT DRIVE	FUME FAN WITH INDUCTION VENTURI	TYPE TP HOOD IN ROOM C223	PENTHOUSE	RETURN DAMPER EXH. FAN EF-20	-	TO BE REMOVED	EXISTING	
FF-25	1050 (495)	1/2	-	1350	1/2	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM C205	PENTHOUSE	RETURN DAMPER	FAN SUPPLIED W/WALL CRADLE MOUNTING BRACKETS	TO BE REMOVED	EXISTING	
FF-26	1050 (495)	1/2	-	1350	1/2	120/1/60	V-BELT	2 STAGE BIFURCATOR FAN	TYPE TS HOOD IN ROOM C259	PENTHOUSE	RETURN DAMPER	FAN SUPPLIED W/WALL CRADLE MOUNTING BRACKETS	TO BE REMOVED	EXISTING	

EXISTING GENERAL EXHAUST FAN SCHEDULE																
MARK	APPLICATION	LOCATION	MANUFACTURER & SIZE	DRIVE	CFM (L/S)	MAX O.V FPM	FAN DISCHARGE	S.P. IN W.G (Pa)	FAN RPM	MOTOR		STARTER	STARTER LOCATION	FAN INTERLOCKING	REMARKS	
										HP	ELEC.					
EF-10	EXHAUST FROM CANOPY EC-15 RM 1108	PENTHOUSE	PVC FUME FAN	V-BELT	490	1114	UB	1.3/8	1058	1/2	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	FUME EXHAUST FAN FF-18 SUPPLY FAN 5-A HIGH LIMIT T'STAT	TO BE REMOVED	
EF-11	EXHAUST FROM CANOPY EC-1 IN ROOM C257	PENTHOUSE	PVC FUME FAN	V-BELT	460	1045	UB	1.3/8	1052	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	RETURN AIR DAMPER HIGH LIMIT T'STAT DAMPER TO CLOSE ON FAN START	TO BE REMOVED	
EF-12	EXHAUST FROM CANOPY EC-16 IN ROOM 3045	PENTHOUSE	PVC FUME FAN	V-BELT	440	1000	UB	1.3/8	1047	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-6 HIGH LIMIT T'STAT	TO BE REMOVED	
EF-13	EXHAUST FROM CANOPY EC-17 IN ROOM 3042	PENTHOUSE	PVC FUME FAN	V-BELT	550	1250	UB	1.3/8	1073	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-6 HIGH LIMIT T'STAT	TO BE REMOVED	
EF-14	EXHAUST FROM CANOPY EC-18 IN ROOM 3041	PENTHOUSE	PVC FUME FAN	V-BELT	520	1182	UB	1.3/8	1069	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-8 HIGH LIMIT T'STAT	TO BE REMOVED	
EF-15	EXHAUST FROM CANOPY EC-19 IN ROOM 3040	PENTHOUSE	PVC FUME FAN	V-BELT	520	1182	UB	1.3/8	1069	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-9 HIGH LIMIT T'STAT	TO BE REMOVED	
EF-16	EXHAUST FROM RM 3035	PENTHOUSE	PVC FUME FAN	V-BELT	370	1370	UB	1.1/8	1255	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A, FUME HOOD FAN FF-14, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-17	EXHAUST FROM RM C247	PENTHOUSE	PVC FUME FAN	V-BELT	540	1227	UB	1.1/8	985	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-20 & FF-21, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-18	EXHAUST FROM RM C329	PENTHOUSE	PVC FUME FAN	V-BELT	370	1370	UB	1.1/8	1255	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-15, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-19	EXHAUST FROM CANOPY EC-8 IN ROOM C223	PENTHOUSE	PVC FUME FAN	V-BELT	535	1216	UB	1.3/8	1071	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE ON/OFF SWITCH IN RM C223	RETURN DAMPER FUME HOOD FAN FF-23	TO BE REMOVED	
EF-20	EXHAUST FROM CANOPY EC-7 IN ROOM C223	PENTHOUSE	PVC FUME FAN	V-BELT	535	1216	UB	1.3/8	1071	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE ON/OFF SWITCH IN RM C223	RETURN DAMPER FUME HOOD FAN FF-24	TO BE REMOVED	
EF-21	EXHAUST ROOM 3040	PENTHOUSE	PVC FUME FAN	V-BELT	370	1370	UB	1.1/8	1255	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-10 & FF-11, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-22	EXHAUST ROOM 3040	PENTHOUSE	PVC FUME FAN	V-BELT	370	1370	UB	1.1/8	1255	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-12 & FF-13, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-23	EXHAUST FROM CANOPY EC-20 IN ROOM C323	PENTHOUSE	PVC FUME FAN	V-BELT	370	1370	UB	1.3/8	1400	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE ON/OFF SWITCH IN RM C323	RETURN AIR DAMPER, HIGH LIMIT T'STAT, DAMPER TO CLOSE ON FAN START	TO BE REMOVED	
EF-24	EXHAUST ROOM C221	PENTHOUSE	PVC FUME FAN	V-BELT	370	1370	UB	1.1/8	1255	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE ON/OFF SWITCH IN RM C221	RETURN AIR DAMPER, HIGH LIMIT T'STAT, DAMPER TO CLOSE ON FAN START	TO BE REMOVED	
EF-25	EXHAUST FROM CANOPIES CONTINUOUS EXHAUST	PENTHOUSE	MIXED FLOW INLINE FAN	V-BELT	2,730	1288	UB	1.1/2	1490	1.5	600/3/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-26	EXHAUST FROM CANOPY EC-5 IN ROOM C217	PENTHOUSE	PVC FUME FAN	V-BELT	535	1216	UB	1.3/8	1071	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE ON/OFF SWITCH IN RM C217	RETURN AIR DAMPER, HIGH LIMIT T'STAT, DAMPER TO CLOSE ON FAN START	TO BE REMOVED	
EF-27	EXHAUST ROOM C319	PENTHOUSE	PVC FUME FAN	V-BELT	750	1250	UB	1.1/8	1258	1/2	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-17, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-28	EXHAUST FROM CANOPY EC-4 IN ROOM C217	PENTHOUSE	PVC FUME FAN	V-BELT	535	1216	UB	1.3/8	1071	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE ON/OFF SWITCH IN RM C217	RETURN AIR DAMPER, HIGH LIMIT T'STAT, DAMPER TO CLOSE ON FAN START	TO BE REMOVED	
EF-29	EXHAUST ROOM C315	PENTHOUSE	MIXED FLOW INLINE FAN	V-BELT	700	921	-	1.1/8	2280	1/2	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN FF-5, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-30	EXHAUST ROOM C317	PENTHOUSE	PVC FUME FAN	V-BELT	520	1182	-	1.1/8	979	1/4	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A FUME HOOD FAN EF-31, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-31	EXHAUST FROM CANOPY EC-24 IN ROOM C317	PENTHOUSE	PVC FUME FAN	V-BELT	750	893	-	1.3/8	2950	3/4	600/3/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE W/ ON/OFF SWITCH IN RM C317	EXHAUST FAN EF-30 HIGH LIMIT T'STAT	TO BE REMOVED	
EF-32	EXHAUST FROM CANOPY EC-21 IN ROOM C325	PENTHOUSE	PVC FUME FAN	V-BELT	470	1069	UB	1.1/4	1009	1/3	120/1/60	MAGNETIC STARTER BY ELEC.	REMOTE ON/OFF SWITCH IN RM C325	RETURN AIR DAMPER ON 470cfm, RETURN TO CLOSE ON FAN START, HIGH LIMIT T'STAT	TO BE REMOVED	
EF-33	WASHROOM EXHAUST FAN BLOCK C2-C3	PENTHOUSE	PVC FUME FAN	V-BELT	720	947	-	1.1/8	2280	1/2	120/1/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	SUPPLY FAN 5-A, HIGH LIMIT T'STAT	EXISTING TO REMAIN	
EF-51	PENTHOUSE VENTILATION	PENTHOUSE	MIXED FLOW INLINE FAN	V-BELT	4,000	1316	-	-	-	-	600/3/60	MAGNETIC STARTER BY ELEC.	MCC IN PENTHOUSE	ROOM HIGH LIMIT T'STAT	EXISTING TO REMAIN	
RF-5A	RETURN AIR	MECH RM	MIXED FLOW INLINE FAN	V-BELT	2298	1602	-	1.1/4	1200	3	600/3/60	MAGNETIC STARTER BY ELEC.	MCC IN MECH ROOM	SUPPLY FAN 5A	REPLACE AND RETURN FAN MOTORS ON RF-5A, RF-5B WITH NEW PREMIUM EFF, VFD RATED MOTORS. INSTALL NEW VFD FOR EACH MOTOR	
RF-5B	RETURN AIR	MECH RM	MIXED FLOW INLINE FAN	V-BELT	4235	1700	-	1	850	3	600/3/60	MAGNETIC STARTER BY ELEC.	MCC IN MECH ROOM	SUPPLY FAN 5B	REPLACE AND RETURN FAN MOTORS ON RF-5A, RF-5B WITH NEW PREMIUM EFF, VFD RATED MOTORS. INSTALL NEW VFD FOR EACH MOTOR	
1. REPLACE AND SUPPLY FAN MOTORS ON RF-5A, RF-5B WITH NEW PREMIUM EFF, VFD RATED MOTORS. INSTALL NEW VFD FOR EACH MOTOR																