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NEW MSSB SCHEDULE											
ID	TYPE	LEVEL	LOCATION	EQUIPMENT NO.	EQUIPMENT DESCRIPTION	MOTOR SIZE (kW)	PHASE	DRIVE TYPE	ACTION	Stage	COMMENTS
MSSB-1	NEW NON-ESSENTIAL	LG2	PLANTROOM 1	AHU-1-1	Supply Air Fan	4	3	VSD	AHU Replacement	2	NEW MSSB 1 TO BE SUPPLIED FROM MSSB-LG2-1
				AHU-1-2	Supply Air Fan	30	3	VSD	AHU Replacement	2	
				AHU-1-5	Supply Air Fan	5.5	3	VSD	AHU Replacement	2	
				AHU-1-6	Supply Air Fan	4	3	VSD	AHU Replacement	2	
				AHU-1-7	Supply Air Fan	4	3	VSD	AHU Replacement	2	
				DH-1-7	Dehumidifier	7.8	3	VSD	New Dehumidifier	2	
				HUM-1-7	Humidifier	6	3	VSD	New Humidifier	2	
				RAF-1-1	Return Fan	1.21	3	VSD	New Return Fan	2	
				RAF-1-2	Return Fan	8.25	3	VSD	New Return Fan	2	
				RAF-1-5	Return Fan	1.65	3	VSD	New Return Fan	2	
				RAF-1-6	Return Fan	0.83	3	VSD	New Return Fan	2	
				RAF-1-7	Return Fan	1.21	3	VSD	New Return Fan	2	
				OAF-LG2-01	FCU-LG2-8 & 9	0.12	1	DOL	New Fan	2	
				EAF 1-1	UPS Room Exhaust Air Fan	0.75	3	VSD	Fan Replacement	2	
				GEF LG1-2	Café Exhaust Fan	0.37	1	EC	Fan Replacement	2	
				SF 1-2	UPS Room Supply Air Fan	0.55	3	VSD	New Fan	2	
				FCU-LG2-1	Meeting Room FCU	0.15	1	EC	New FCU	2	
				FCU-LG2-2	Breakout / Specialist Scanning FCU	0.225	1	EC	New FCU	2	
				FCU-OA-02	GF Gallery O/A FCU 2	TBA	3	DOL	Existing FCU	2	
				FCU-OA-01	GF Gallery O/A FCU 1	TBA	3	DOL	Existing FCU	2	
				OAF-HWB	Boiler OAF	1.5	3	DOL	Existing Fan	2	
				HWB-1	HHW Boiler	0.9	3	DOL	Boiler Replacement	2	
				HWB-2	HHW Boiler	0.9	3	DOL	Boiler Replacement	2	
				HWB-3	HHW Boiler	0.9	3	DOL	New Boiler	2	
				HWP-1	HHW Pump	15	3	VSD	Pump Replacement	2	
				HWP-2	HHW Pump	15	3	VSD	Pump Replacement	2	
				HWP-3	HHW Pump	15	3	VSD	New Pump	2	
MSSB-4A	NEW NON-ESSENTIAL	LG1	PLANTROOM 4A	AHU-4-5	Supply Air Fan	2.2	3	VSD	AHU Replacement	5	TO REPLACE EXISTING MSSB 4A
				DH-4-5	Dehumidifier	3.1	3	DOL	New Dehumidifier	5	
				HUM-4-5	Humidifier	3.8	3	DOL	New Humidifier	5	
				RAF-4-4	Return Fan	1.65	3	VSD	New Return Fan	1	
				FCU-LG1-10	Fan Coil Unit	1.25	1	EC	New FCU	1	
MSSB-4	NEW NON ESSENTIAL	LG1	PLANTROOM 4	AHU-4-7	Supply Air Fan	1.1	3	VSD	New AHU	1	TO REPLACE EXISTING MSSB-MP-1
				AHU-4-6	Supply Air Fan	2.2	3	VSD	New AHU	5	
				RAF-4-6	Return Fan	1.65	3	VSD	New Return Fan	5	
				DH-4-6	Dehumidifier	12.8	3	DOL	New Dehumidifier	5	
				HUM-4-6	Humidifier	3.8	1	DOL	New Humidifier	5	
MSSB-10	NEW NON-ESSENTIAL	L2	PLANTROOM 10	AHU-10-1	Supply Air Fan	4	3	VSD	AHU Replacement	4	NEW MSSB 10 TO REPLACE EXISTING MSSB10-NE AND MSSB-10-E NEW SUBMAIN REQUIRED
				AHU-10-2	Supply Air Fan	5.5	3	VSD	AHU Replacement	4	
				AHU-10-3	Supply Air Fan	18.5	3	VSD	AHU Replacement	4	
				AHU-10-4	Supply Air Fan	7.5	3	VSD	AHU Replacement	4	
				AHU-10-5	Supply Air Fan	18.5	3	VSD	AHU Replacement	4	
				AHU-10-6	Supply Air Fan	5.5	3	VSD	AHU Replacement	4	
				AHU-10-7	Supply Air Fan	11	3	VSD	AHU Replacement	4	
				AHU-10-8	Supply Air Fan	7.5	3	VSD	AHU Replacement	4	
				AHU-10-10	Supply Air Fan	15	3	VSD	New AHU	3	
				AHU-10-11	Supply Air Fan	15	3	VSD	New AHU	3	
				RAF-10-1	Return Fan	1.21	3	VSD	New Return Fan	4	
				RAF-10-2	Return Fan	1.21	3	VSD	New Return Fan	4	
				RAF-10-3	Return Fan	6.05	3	VSD	New Return Fan	4	
				RAF-10-4	Return Fan	2.42	3	VSD	New Return Fan	4	
				RAF-10-5	Return Fan	3.3	3	VSD	New Return Fan	4	
				RAF-10-6	Return Fan	1.65	3	VSD	New Return Fan	4	
				RAF-10-7	Return Fan	2.42	3	VSD	New Return Fan	4	
				RAF-10-8	Return Fan	2.42	3	VSD	New Return Fan	4	
				RAF-10-10	Return Fan	1.65	3	VSD	New Return Fan	4	
				DH-10-5	Dehumidifier	33.5	3	DOL	New Dehumidifier	4	
				HUM-10-5	Humidifier	6	3	DOL	New Humidifier	4	
				DH-10-10	Dehumidifier	21.1	3	DOL	New Dehumidifier	3	
MSSB-11	NEW NON-ESSENTIAL	L2	PLANTROOM 11	HUM-10-10	Humidifier	7.5	3	DOL	New Humidifier	3	NEW MSSB-11 TO REPLACE EXISTING MSSB11-NE AND MSSB-11-E NEW MSSB SUPPLIED FROM EXISTING 120MM ² SUBMAIN
				AHU-11-1	Supply Air Fan	18.5	3	VSD	AHU Replacement	3	
				AHU-11-2						3	
				AHU-11-3						3	
				AHU-11-4	Supply Air Fan	15	3	VSD	New AHU	3	
				RAF-11-4	Return Fan	3.3	3	VSD	New Return Fan	3	
				DH-11-1	Dehumidifier	35.4	3	VSD	New Dehumidifier	3	
				HUM-11-1	Humidifier	3.8	3	VSD	New Humidifier	3	
				DH-11-2							
				HUM-11-2							
				DH-11-3							
				HUM-11-3							

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CIRCUITS TO BE ADDED TO EXISTING MSSB's (Including new MSSB's installed under the BMS Upgrade Project)																
ID	TYPE	LEVEL	LOCATION	EQUIPMENT NO.	EQUIPMENT DESCRIPTION	MOTOR SIZE (kW)	PHASE	DRIVE TYPE	ACTION	Stage	COMMENTS					
MSSB-3	EXISTING	LG2	PLANTROOM 3	AHU-3-1	Supply Air Fan	18.5	3	VSD	New AHU	1	EXISTING MSSB LG-2E WILL BE REPLACED WITH NEW MSSB-3 AS PART OF THE BMS UPGRADE PROJECT PRIOR TO COMMENCEMENT OF THE HVAC UPGRADE PROJECT					
				AHU-3-2	Supply Air Fan	11	3	VSD	New AHU	1						
				AHU-3-3	Supply Air Fan	30	3	VSD	New AHU	1						
				RAF-3-1	Return Fan	4.4	3	VSD	New Return Fan	1						
				RAF-3-2	Return Fan	3.3	3	VSD	New Return Fan	1						
				RAF-3-3	Return Fan	12.1	3	VSD	New Return Fan	1						
				DH-3-2	Dehumidifier	21.1	3	DOL	New Dehumidifier	1						
				HUM-3-2	Humidifier	6	3	DOL	New Humidifier	1						
				SEF-37	Smoke Exhaust	5.5	3	DOL	Existing Fan	1						
				SEF-38	Smoke Exhaust	7.5	3	DOL	Existing Fan	1						
				PR-34	Plantroom Fan	0.5	3	DOL	Existing Fan	1						
MSSB-TG-1	EXISTING	G	PLANTROOM 12	DH-MP1-1	Dehumidifier	28.9	3	DOL	New Dehumidifier	5	TO BE RETAINED. SEGREGATE CONTROLS AND POWER CABLES IN SWITCHBOARD					
				AHU-MP1-1	Supply Air Fan	TBA	3	VSD	Existing Fan							
MSSB-EG-1	EXISTING	G	PLANTROOM 13	HUM-MP1-1	Humidifier	TBA	3	DOL	Existing Humidifier		TO BE RETAINED. SEGREGATE CONTROLS AND POWER CABLES IN SWITCHBOARD					
				DH-MP2-1	Dehumidifier	28.9	3	DOL	New Dehumidifier							
MSSB-7	EXISTING NON-ESSENTIAL	L5	PLANTROOM 13	AHU-MP2-1	Supply Air Fan	TBA	3	VSD	Existing Fan		WILL BE REPLACED AS PART OF THE BMS UPGRADE PROJECT PRIOR TO COMMENCEMENT OF THE HVAC UPGRADE PROJECT					
				HUM-MP2-1	Humidifier	TBA	3	DOL	Existing Humidifier							
				AHU-7-1	Supply Air Fan	7.5	3	VSD	Existing AHU							
				AHU-7-2	Supply Air Fan	0.75	3	VSD	Existing AHU							
				AHU-7-3	Supply Air Fan	7.5	3	VSD	Existing AHU							
				AHU-7-4	Supply Air Fan	5.5	3	VSD	Existing AHU							
				AHU-7-5	Supply Air Fan	4	3	VSD	Existing AHU							
				AHU-7-6	Supply Air Fan	1.5	3	VSD	Existing AHU							
				AHU-7-7	Supply Air Fan	15	3	VSD	AHU Replacement	3						
				AHU-7-8	Supply Air Fan	30	3	VSD	AHU Replacement	3						
				AHU-7-9	Supply Air Fan	2.2	3	VSD	Existing AHU							
				AHU-7-10	Supply Air Fan	4	3	VSD	Existing AHU							
				RAF-7-1	Return Fan	2.42	3	VSD	Fan Replacement							
				RAF-7-2	Return Fan	0.61	3	VSD	New Return Fan	3						
				RAF-7-3	Return Fan	1.65	3	VSD	New Return Fan	3						
				RAF-7-4	Return Fan	2.42	3	VSD	New Return Fan	3						
				RAF-7-5	Return Fan	0.83	3	VSD	New Return Fan	3						
				RAF-7-6	Return Fan	0.83	3	VSD	New Return Fan	3						
				RAF-7-7	Return Fan	4.4	3	VSD	New Return Fan	3						
				RAF-7-8	Return Fan	4.4	3	VSD	New Return Fan	3						
				RAF-7-9	Return Fan	1.21	3	VSD	New Return Fan	3						
				DEHUM-7-10	Dehumidifier	12.7	3	VSD	Existing Dehumidifier							
				OAF-7-1	Outside Air Fan	2.42	3	VSD	Fan Replacement	3						
				OAF-7-2	Outside Air Fan	3.3	3	VSD	New Fan	3						
				OAF-11-1	Outside Air Fan	12.1	3	VSD	Fan Replacement	3						
				PRF-48	Exhaust Air Fan	2	3	DOL	Existing Fan							
				BFCVF	Boiler Flue	1.5	3	DOL	Existing Fan							
				SEF-01	Smoke Exhaust Fan	4	3	DOL	Existing Fan							
				SEF-02	Smoke Exhaust Fan	5.5	3	DOL	Existing Fan							
				SEF-11	Smoke Exhaust Fan	22	3	DOL	Existing Fan							
				SEF-12	Smoke Exhaust Fan	55	3	DOL	Existing Fan							
SEF-14	Smoke Exhaust Fan	3	3	DOL	Existing Fan											
TEF-44	Toilet Exhaust Fan	2.2	3	DOL	Existing Fan											
TEF-45	Toilet Exhaust Fan	2.2	3	DOL	Existing Fan											
CT-1	Cooling Tower 1	18.64	3	VSD	Tower Replacement	3										
CT-2	Cooling Tower 2	18.64	3	VSD	Tower Replacement	3										
CT-3	Cooling Tower 3	18.64	3	VSD	Tower Replacement	3										
SSF-1	Side Stream Filter 1	5.5	3	VSD	Filter Replacement	3										
SSF-2	Side Stream Filter 2	5.5	3	VSD	Filter Replacement	3										
SSF-3	Side Stream Filter 3	5.5	3	VSD	Filter Replacement	3										
HUM-7-10	Humidifier	11	3	DOL	Existing Humidifier											
MSSB-8A	EXISTING NON-ESSENTIAL	L5	PLANTROOM 7	WET-11-1	Wet Air Exhaust Fan	0.92	3	DOL	New Fan	3	WILL BE REPLACED AS PART OF THE BMS UPGRADE PROJECT PRIOR TO COMMENCEMENT OF THE HVAC UPGRADE PROJECT					
				AHU-8-1	Supply Air Fan	4	3	VSD	Existing AHU							
				AHU-8-2	Supply Air Fan	3	3	VSD	Existing AHU							
				AHU-8-3	Supply Air Fan	5.5	3	VSD	Existing AHU							
				AHU-8-4	Supply Air Fan	5.5	3	VSD	New AHU	1						
				AHU-8-5	Supply Air Fan	1.1	3	VSD	Existing AHU							
				AHU-8-6	Supply Air Fan	3	3	VSD	Existing AHU							
				AHU-8-7	Supply Air Fan	4	3	VSD	Existing AHU							
				RAF-8-1	Return Fan	2.42	3	VSD	New Fan	1						
				RAF-8-2	Return Fan	1.65	3	VSD	New Fan	1						
				RAF-8-3	Return Fan	2.42	3	VSD	New Fan	1						
				RAF-8-4	Return Fan	1.65	3	VSD	New Fan	1						
				RAF-8-5	Return Fan	0.83	3	VSD	New Fan	1						
				RAF-8-6	Return Fan	1.21	3	VSD	New Fan	1						
				DH-8-4	Dehumidifier	12.8	3	DOL	New Dehumidifier	1						
				HUM-8-4	Humidifier	3.8	3	DOL	New Humidifier	1						
				OAF-8-2	Outside Air Fan	2.42	3	DOL	Replacement Fan	1						
				OAF-10-1	Outside Air Fan	20.35	3	VSD	Replacement Fan	1						
				WEF-10-1	Wet Air Exhaust Fan	1.01	3	DOL	New Fan	1						
				MSSB-15	EXISTING	LG1	PLANTROOM 8	DH-8-7	Dehumidifier	6		3	DOL	Existing Dehumidifier		CHANGE SWITCHBOARD LABEL FROM MSSB-ES-1 TO MSSB-15
								HUM-8-7	Humidifier	TBA		3	DOL	Existing Humidifier		
SEF-8	Smoke Exhaust Fan	30	3					DOL	Existing Fan							
SEF-10	Smoke Exhaust Fan	22	3					DOL	Existing Fan							
AHU-15-1	Supply Air Fan	3	3					VSD	AHU Replacement	5						
DH-15-1	Dehumidifier	4.6	3					DOL	New Dehumidifier	5						
HUM-15-1	Humidifier	3.8	3					DOL	New Humidifier	5						