		Cornell N	NYCTech F	AB 100%	Constructi	on Docum	ent Electrica	l Winter Ca	lculations											
			Lights	Lights	Power	Power		Misc. MEP	Misc. MEP	Kitchen	Kitchen	Security		IT Equipment	IT Equipment	-	Misc. Eq.	· · · · · · · · · · · · · · · · · · ·	Elevators	Elevators
Level	Area Description	Approx Sqft <sup>2</sup>	Connected	Demand	Connected	Demand	Connected	DF	Demand	Connected	Demand	Connected	Demand	Connected	Demand	Connected	DF	Demand	Connected	Demand
Level B1																				
	LP-B1S		2147	2147																
	LP-B1N		4603	4603												1746	0.3	523.8		
	LP-LH		1594	1594	4000	4000	0400	0.75	0005	04444	40047									
	PP-FS-A				1620	1620	3100	0.75	2325	21411	13917					0400		0.40		
	RP-LH		4400	4400	13720	11860										2160	0.3	648		
	ELP-1S		4422	4422																
	ELP-1N		4143	4143	0000	0000	05.47	0.75	4040							4400	0.0	0.40		
	RP-B1-SA				9900	9900	6547	0.75	4910							1160	0.3	348		
	RP-B1-NA				16360	13180	500	0.75	375							9052	0.3	2715.6		
	RP-B1-NB ERP-1S				4320	4320	3116	0.75	2337							10956	0.3	3286.8		
	ERP-18						1820	0.75	1365							3600	0.3	1080		
	LRRP-BS				1920	1920	7600 500	0.75 0.75	5700 375			23040	3840							
	LRIT-BN				1920	1920	500	0.75	3/3			23040	3640	7830	3960					
	LITTI-DIV													7030	3900					
	SE-1						1200	0.7	840											
	ESP-1						1700	0.7	1190											
	ESP-2						1700	0.7	1190											
	PBP-1						12600	0.7	12600											
	NPP-1	+		+	+		22400	0.7	15680											
	HE-1	1		1	1		1800	0.7	1260											
	CP-1	+		+	+		900	0.7	630											<u> </u>
	JP-1	1		1	1		12600	0.7	8820											
	CHWP-1&2	+		+	+		22447	0.7	8979											
	SCHW-1&2	+		+	+		11639	0.40	4656											
	HHWP-1&2	1		1	1		28267	0.40	19787											
	GWP-1&2	+		+	+		54040	0.70	37828											
	CWP-1&2	1		1	1		43232	0.70	17293											
	CWP-3&4						22447	0.00	n											
	MODULAR HEAT RECOVERY CHILLER						535411	0.40	214164											
	TF-0.1						696	0.40	487											
	TF-0.2						696	0.70	487											
	TF-0.3						696	0.70	487											
	TF-0.4						696	0.70	487											
	FOP-1						900	0.00	0											
	FCU-0.1						1200	0.70	840											
	FCU-0.2						1200	0.70	840											
	FCU-0.3						1100	0.70	770											
	UH-0.1						200	0.70	140											
	UH-0.2						300	0.70	210											
	Waste Dehydrator						000	0.70	210					12471	8106					
	Pulper, Close Coupled													16628	10808					
	Sub Total Load	21164	14762	14762	47840	42800	803251		367053	21411	13917	23040	3840	36929	22874	28674		8602	0	0
	Total Connected Floor Load VA	1221497																		
	Cub Total Engagement and	1221701																	0	
	Sub Total Emergency Load	1221407	8565	8565	1920	1920	9920		7440			23040	3840	7830	3960	3600		1080	U	0
	Sub Total Emergency Load  Total Emergency Connected Floor Load VA	22040	8565	8565	1920	1920	9920		7440			23040	3840	7830	3960	3600		1080	U	0
	Total Emergency Load  Total Emergency Connected Floor Load VA  Floor VA/sq.ft		8565	8565	1920	1920	9920		7440			23040	3840	7830	3960	3600		1080	U	0
	Total Emergency Connected Floor Load VA	22040	8565	8565	1920	1920	9920		7440			23040	3840	7830	3960	3600		1080	0	0
Level 01	Total Emergency Connected Floor Load VA	22040	8565	8565	1920	1920	9920		7440			23040	3840	7830	3960	3600		1080	U	0
Level 01	Total Emergency Connected Floor Load VA	22040	<b>8565</b> 4054	<b>8565</b> 4054	1920	1920	9920		7440			23040	3840	7830	3960	3600		1080		0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft	22040			1920	1920	9920		7440			23040	3840	7830	3960	<b>3600</b> 1746	0.3	1080 523.8		0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S	22040	4054	4054	1920	1920	9920		7440			23040	3840	7830	3960		0.3			0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N	22040	4054 8827	4054 8827	1920	1920 1920	1920	0.75	<b>7440</b> 1440			23040	3840	7830	3960		0.3			0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B	22040	4054 8827	4054 8827				0.75 0.75				23040	3840	7830	3960	1746 4536 4762		523.8		0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A	22040	4054 8827	4054 8827	10050	10025	1920 2520		1440 1890				3840	7830	3960	1746 4536	0.3	523.8 1360.8		0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080	1920		1440			720	3840	7830	3960	1746 4536 4762	0.3	523.8 1360.8 1428.6		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C	22040	4054 8827	4054 8827	10050 10160	10025 10080	1920 2520	0.75	1440 1890					7830	3960	1746 4536 4762 2592	0.3 0.3 0.3	523.8 1360.8 1428.6 777.6		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-B RP-1N-C PP-FS-B	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720	0.75	1440 1890	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720	0.75	1440 1890	72298	46994			<b>7830</b> 6840	3960	1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840	0.75	1440 1890 2790	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840	0.75	1440 1890 2790	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700	0.75 0.75 0.70 0.70	1440 1890 2790 490 490	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700	0.75 0.75 0.70 0.70 0.70	1440 1890 2790 490 490 490	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA  Floor VA/sq.ft  LP-1S  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500	0.75 0.75 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA  Floor VA/sq.ft  LP-1S  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224	0.75 0.75 0.70 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750 857	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA  Floor VA/sq.ft  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2  FCU-1.3	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056	0.75 0.75 0.70 0.70 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750 857 739	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA  Floor VA/sq.ft  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2  FCU-1.3  CUH-1.1	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200	0.75 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750 857 739 140	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA  Floor VA/sq.ft  LP-1S  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2  FCU-1.3  CUH-1.1  CUH-1.2	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200	0.75 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750 857 739 140 140	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA  Floor VA/sq.ft  LP-1S  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2  FCU-1.3  CUH-1.1  CUH-1.2  UH-1.1	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200	0.75 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750 857 739 140 140	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2  FCU-1.3  CUH-1.1  CUH-1.2  UH-1.1	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20	0.75 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 141	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S  LP-1N  LP-FS  RP-1S-A  RP-1S-B  RP-1N-A  RP-1N-B  RP-1N-C  PP-FS-B  LRIT-1N  TF-1.1  TF-1.2  TF-1.3  FCU-1.1  FCU-1.2  FCU-1.3  CUH-1.1  CUH-1.2  UH-1.1  UH-1.2  UH-1.3	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20 20 30	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 14	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1N-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2 TF-1.3 FCU-1.1 FCU-1.2 FCU-1.3 CUH-1.1 CUH-1.2 UH-1.1 UH-1.2 UH-1.3 UH-1.4	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20 20 20 30 20	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 144 21	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1N-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2 TF-1.3 FCU-1.1 FCU-1.2 FCU-1.3 CUH-1.1 CUH-1.2 UH-1.1 UH-1.2 UH-1.3 UH-1.4 RFP-1	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20 20 20 20 20 30 20 696	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 21 14	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2 TF-1.3 FCU-1.1 FCU-1.2 FCU-1.3 CUH-1.1 CUH-1.2 UH-1.3 UH-1.4 RFP-1 RFP-2	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 20 20 20 20 30 20 696 696	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 21 14 487 487	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1N LP-FS RP-1N-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2 TF-1.3 FCU-1.1 FCU-1.2 FCU-1.3 CUH-1.1 CUH-1.2 UH-1.1 UH-1.2 UH-1.3 UH-1.4 RFP-1	22040	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20 20 20 20 20 30 20 696	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 21 14	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180		
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2 TF-1.3 FCU-1.1 FCU-1.2 FCU-1.3 CUH-1.1 CUH-1.2 UH-1.1 UH-1.2 UH-1.3 UH-1.4 RFP-1 RFP-2 RFP-3	22040 57.7	4054 8827 1735	4054 8827 1735	10050 10160 13220 19880 3420	10025 10080 11610 14940 3420	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20 20 20 20 30 20 696 696 696	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 21 14 487 487			720	360	6840	3960	1746 4536 4762 2592 600 3024	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180 907.2		
Level 01	Total Emergency Connected Floor Load VA   Floor VA/sq.ft	22040 57.7	4054 8827	4054 8827	10050 10160 13220	10025 10080 11610	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 20 20 20 20 30 20 696 696	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 21 14 487 487	72298	46994					1746 4536 4762 2592 600	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180	0	0
Level 01	Total Emergency Connected Floor Load VA Floor VA/sq.ft  LP-1S LP-1S LP-1N LP-FS RP-1S-A RP-1S-B RP-1N-A RP-1N-B RP-1N-C PP-FS-B LRIT-1N  TF-1.1 TF-1.2 TF-1.3 FCU-1.1 FCU-1.2 FCU-1.3 CUH-1.1 CUH-1.2 UH-1.1 UH-1.2 UH-1.3 UH-1.4 RFP-1 RFP-2 RFP-3	22040 57.7	4054 8827 1735	4054 8827 1735	10050 10160 13220 19880 3420	10025 10080 11610 14940 3420	1920 2520 3720 3840 700 700 700 2500 1224 1056 200 200 20 20 20 20 30 20 696 696 696	0.75  0.75  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70  0.70	1440 1890 2790 490 490 490 1750 857 739 140 140 14 14 21 14 487 487			720	360	6840	3960	1746 4536 4762 2592 600 3024	0.3 0.3 0.3 0.3	523.8 1360.8 1428.6 777.6 180 907.2	0	0

		Cornell N	NYCTech F	AB 100%	Constructi	on Docume	ent Electrica	i Winter Ca	alculations											
			Lights	Lights	Power	Power	Misc. MEP	Misc. MEP	Misc. MEP	Kitchen	Kitchen	Security	Security	IT Equipment	IT Equipment	Misc. Eq.		Misc. Eq.		Elevators
	Area Description	Approx Sqft <sup>2</sup>	Connected	Demand	Connected	Demand	Connected	DF	Demand	Connected	Demand	Connected	Demand	Connected	Demand	Connected	DF	Demand	Connected	Demand
	Total Emergency Connected Floor Load VA	0																		
_	Floor VA/sq.ft	3.5																		
																			-	+
Level 02																				
	LP-2S																			1
	LP-2N		4078	4078																
	ELP-2S		8121	8121																
E	ELP-2N		3402	3402																
	RP-2S-A		4346	4346			1500	0.75	1125											
	RP-2S-B				14260	12130	1920	0.75	1440							2592	0.3	777.6		
	RP-2N-A				18020	14010	2120	0.75	1590							658	0.3	197.4		
	RP-2N-B				12420	11210	1920	0.75	1440							874	0.3	262.2		1
	RP-2N-C				9940	9940	2920	0.75	2190							5520	0.3	1656	<del> </del>	+
	ERP-2S ERP-2N				16380	13190	1920 700	0.75 0.75	1440 525	-						2160	0.3	648	-	+
	LRIT-2S						1500	0.75	1125							480	0.3	144		1
	LRIT-2N						1300	0.73	1120					16440	8760	1296	0.3	388.8		
														6840	3960	2016	0.3	604.8		1
	TF-2.1						696	0.70	487									1		1
	TF-2.2						696	0.70	487											
F	FCU-2.1						600	0.70	420											
F	FCU-2.2						1100	0.70	770											
F	FCU-2.3						1400	0.70	980											
	Sub Total Load	32035	19947	19947	71020	60480	18992		14019	0	0	0	0	23280	12720	15596		4679	0	0
	Total Floor Load VA	53286	44700	44700	40000	40400	1100		0000					40.475	0705	0000		4404		
	Sub Total Emergency Connected Floor Load VA	40007	11523	11523	16380	13190	4120		3090	0	0	0	0	16440	8760	3936		1181	0	0
	Total Emergency Connected Floor Load VA Floor VA/sq.ft	12327 1.7																		
	Tion Troget	1.7																		
Level 03																	<u> </u>			†
	LP-3S		4294	4294															1	
	LP-3N		7873	7873						1							1	1		1
	RP-3S-A		<u></u>		14670	12335	1920	0.75	1440	<u></u>						2376	0.3	712.8		
F	RP-3S-B				15020	12510	2120	0.75	1590							1080	0.3	324		
	RP-3N-A				11340	10670	1920	0.75	1440							864	0.3	259.2		
	RP-3N-B				9400	9400	2920	0.75	2190							1600	0.3	480		
	RP-3N-C				17460	13730	1920	0.75	1440							4104	0.3	1231.2		
	LRIT-3S													6840	3960					1
	LRIT-3N													6840	3960			<u> </u>		
	TE 2.4						200	0.70	407								<u> </u>	1	1	1
	TF-3.1 TF-3.2		<u> </u>				696 696	0.70 0.70	487 487	-			<u> </u>					<u> </u>		1
	FCU-3.1	+					1100	0.70	770	+							<u> </u>	1	+	1
	FCU-3.2						1100	0.70	770	+										1
	FCU-3.3		1				1400	0.70	980									1		1
										1								1		1
	Sub Total Load	30569	12167	12167	67890	58645	15792		11594	0	0	0	0	13680	7920	10024		3007	0	0
	Total Floor Load VA	40418														10021				
	Sub Total Emergency Load		0																	
	Total Emergency Connected Floor Load VA			U	0	0	0		0			0	0	13680	7920	0		0	0	0
		0		U	0	0	0		0			0	0	13680	7920	0		0	0	0
	Floor VA/sq.ft	1.3		0	0	0	0		0			0	0	13680	7920	0		0	0	0
	Floor VA/sq.ft	•		0	0	0	0		0			0	0	13680	7920	0		0	0	0
Level 04		•	4500	4500	0	0	0		0			0	0	13680	7920	0		0	0	0
Level 04	LP-4S	•	4599 9214	4599 9214	0	0	0		0			0	0	13680	7920	0		0	0	0
Level 04		•	4599 9214 4878	4599 9214 4878	0	0	0		0			0	0	13680	7920	0		0	0	0
Level 04	LP-4S LP-4N	•	9214	9214	0	0	0		0			0	0	13680	7920	0		0	0	0
Level 04	LP-4S LP-4N ELP-4S	•	9214 4878	9214 4878	13790	11895	1920	0.75	1440			0	0	13680	7920	<b>0</b> 3456	0.3	1036.8	0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4N	•	9214 4878	9214 4878	13790 18420	11895 14210	1920 1920	0.75 0.75	1440 1440			0	0	13680	7920	0	0.3	1036.8 518.4	0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A	•	9214 4878	9214 4878		14210 10670	1920 1920	0.75 0.75	1440 1440			0	0	13680	7920	3456	ļ		0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920	0.75 0.75 0.75	1440 1440 2190			0	0	13680	7920	3456 1728 864 1600	0.3	518.4 259.2 480	0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C	•	9214 4878	9214 4878	18420 11340	14210 10670	1920 1920 2920 1920	0.75 0.75 0.75 0.75	1440 1440 2190 1440			0	0	13680	7920	3456 1728 864	0.3 0.3	518.4 259.2	0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114	0.75 0.75 0.75 0.75 0.75	1440 1440 2190 1440 2336			0	0	13680	7920	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920	0.75 0.75 0.75 0.75	1440 1440 2190 1440			0	0			3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114	0.75 0.75 0.75 0.75 0.75	1440 1440 2190 1440 2336			0		7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114	0.75 0.75 0.75 0.75 0.75	1440 1440 2190 1440 2336			0				3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4N	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000	0.75 0.75 0.75 0.75 0.75 0.75	1440 1440 2190 1440 2336 1500					7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4N  TF-4.1	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000	0.75 0.75 0.75 0.75 0.75 0.75	1440 1440 2190 1440 2336 1500					7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4N  TF-4.1 TF-4.2	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70	1440 1440 2190 1440 2336 1500					7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4S TF-4.1 TF-4.2 FCU-4.1	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000 696 696 1100	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770					7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4N  TF-4.1 TF-4.2	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70	1440 1440 2190 1440 2336 1500					7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4N TF-4.1 TF-4.2 FCU-4.1 FCU-4.2	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000 696 696 1100	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770 770					7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480		
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4N  TF-4.1 TF-4.2 FCU-4.1 FCU-4.2 FCU-4.3	•	9214 4878	9214 4878	18420 11340 10480	14210 10670 10240	1920 1920 2920 1920 3114 2000 696 696 1100	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770 770	0		0	0	7650	4680	3456 1728 864 1600	0.3 0.3 0.3	518.4 259.2 480	0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4N TF-4.1 TF-4.2 FCU-4.1 FCU-4.2 FCU-4.3 Sub Total Load Total Floor Load VA	1.3	9214 4878 2478	9214 4878 2478	18420 11340 10480 16740	14210 10670 10240 13370	1920 1920 2920 1920 3114 2000 696 696 1100 1100 1400	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770 770 980	0			0	7650 6840	4680 3960	3456 1728 864 1600 3456	0.3 0.3 0.3	518.4 259.2 480 1036.8	0	0
Level 04  Level 04  E  E  F  F  F  F  F  F  F  F  F  F  F	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4S LRIT-4N  TF-4.1 TF-4.2 FCU-4.1 FCU-4.2 FCU-4.3  Sub Total Load Total Floor Load VA Sub Total Emergency Load	1.3 1.3	9214 4878 2478	9214 4878 2478	18420 11340 10480 16740	14210 10670 10240 13370	1920 1920 2920 1920 3114 2000 696 696 1100 1100	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770 770 980	0			0	7650 6840	4680	3456 1728 864 1600 3456	0.3 0.3 0.3	518.4 259.2 480 1036.8	0	0
Level 04	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4N  TF-4.1 TF-4.2 FCU-4.3  Sub Total Load Total Floor Load VA Sub Total Emergency Connected Floor Load VA	1.3 1.3 30308 50421	9214 4878 2478	9214 4878 2478	18420 11340 10480 16740	14210 10670 10240 13370	1920 1920 2920 1920 3114 2000 696 696 1100 1100 1400	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770 770 980	0		0	0	7650 6840	4680 3960	3456 1728 864 1600 3456	0.3 0.3 0.3	518.4 259.2 480 1036.8 3331.2	0	0
Level 04  Level 04  E  E  F  F  F  F  F  F  F  F  F  F  F	LP-4S LP-4N ELP-4S ELP-4N RP-4S-A RP-4S-A RP-4S-B RP-4N-A RP-4N-B RP-4N-C ERP-4S ERP-4N LRIT-4S LRIT-4S LRIT-4S LRIT-4N  TF-4.1 TF-4.2 FCU-4.1 FCU-4.2 FCU-4.3  Sub Total Load Total Floor Load VA Sub Total Emergency Load	1.3 1.3	9214 4878 2478	9214 4878 2478	18420 11340 10480 16740	14210 10670 10240 13370	1920 1920 2920 1920 3114 2000 696 696 1100 1100 1400	0.75 0.75 0.75 0.75 0.75 0.75 0.70 0.70 0.70 0.70	1440 1440 2190 1440 2336 1500 487 487 770 770 980	0		0	0	7650 6840	4680 3960	3456 1728 864 1600 3456	0.3 0.3 0.3	518.4 259.2 480 1036.8 3331.2	0	

Column   C			Cornell N	NYCTech F	ΔB 100%	Constructi	ion Docum	ent Flectrica	I Winter Ca	alculations							7				
Second   S			Joinen		1		,				Kitchen	Kitchen	Security	Security	IT Equipment	IT Equipment	Misc. Eq.	Misc. Ea.	Misc. Ea.	Elevators	Elevators
Mathematical   Math	Level	Area Description	Approx Sqft <sup>2</sup>		_												-				
## 1	Roof																				
Second Content						0040	2010	4000	0.75	750									<u> </u>		<u> </u>
Column   C				1500	1500			1000	0.75	750	<u> </u>						1		<del>                                     </del>		
Street   S						7440	7440	400	0.75	300									+		
		TA COTCOTT						400	0.73	300									+		
																					<u> </u>
Mathematical Content of the conten		AHU-1 WORKSPACE N (supply)						64017	0.40	25607											
Column   C		, ,																			
M-1000000000000000000000000000000000000		· · · · · · · · · · · · · · · · · · ·						_													
Mary Controlled   Mary Contr																			1		
Marche   M																	1		+		+
Marcial Journey   10   10   10   10   10   10   10   1																					-
Mod SOFF   Second Architect   Mode																			1		
March   Marc																					
March   Marc		AHU-4 SEMINAR (supply)						43232	0.40	17293											
MUSCOMPERSON																					
MASCORI STATE OF THE CONTROL OF THE						<b>_</b>					1		<b>_</b>	1	<b>_</b>		1		<del>                                     </del>		
Accomposition of the control process section of the control process and section of the		1 11 17				-					-		-		-	-	1		<del>                                     </del>		
BFF   See See See See See See See See See S																			1		-
## 1			+		+						+			-	<del> </del>	+			+		1
SC 26th yearning are mate contin Assemble Methodox 1										0											
State   Stat										0											1
Section of the sect								11639	0.00	0											1
SPF Conference in contract of the control of the		SEF-5 (only operating in smoke condition. Assumes AHUs shutdown.)						22447	0.00	0											
Section		, , , ,								0											
Fig.										U											
March   Marc				<u> </u>																	
Signature   Sign											-						1		+		<del>                                     </del>
Se S																					-
CT1								_											1		
C1 NETURN HAT NAME										0											1
CTT-1 FOLS-1 FOLS-2 FOLS-2 FOLS-2 FOLS-3 FOL		CT-1 SUPPLY HEAT TRACE						1920	0.00	0											
FOUN-51 FOUN-52 FOUN-52 FOUN-52 FOUN-53 FOUN-54 FOUN-54 FOUN-55 FOUN-5										0											
FCU-52 UH-61 UH-61 UH-62 UH-62 UH-62 UH-62 UH-63 UH-63 UH-63 UH-64 UH-64 UH-64 UH-64 UH-64 UH-65 UH-67 UH-68 UH-67 UH-68 UH-67 UH-68										U											
H-5:1																	_		1		
H-5				<u> </u>							<u> </u>						1	+	<del> </del>		+
Ho										_									1		
UH-5.4   UH-5.5   UH-5.6   U						1													1		
DR-56   DR-57   DR-57   DR-58   DR-5										_											
UH-57		UH-5.5						22	0.70	16											
Sub Total Load										_											
Total Energency Load   1929		UH-5.7						15	0.70	10									1		
Total Energency Load   1929		Sub Total Lood	0750	4500	4500	40000	40000	49490E-0000		120005-0505		•		0			0			0	
Sub Dotal Emergency Load				1500	1500	16080	16080	481205.0903		138085.3585	U	U	U	U	U	U	U		U	U	0
Total Emergency Connected Floor Load VAs.   111227			013230	0	0	7440	7440	130927		300	0		0	0	0	0	0		0	0	0
Floor VAsq.ft   Floor VAsq.f			131227					.0021													
Miscellaneous         Image: Company of the Compa																					
Site Lighting																					
PE-1   PE-1   PE-2   PE-2   PE-2   PE-3	Miscellaneous					ļ					<u> </u>		ļ				<u> </u>		<del>                                     </del>		
PE-2   PE-3					5000	-		-			1				-	1	1		<del>                                     </del>	44000	070400
PE-3			+			<del> </del>		-			<del> </del>		<del> </del>		-	<del> </del>	1		+		
Total Connected Load Area						<del> </del>		<del> </del>			+		+	1	<del> </del>	1	1		+		
Total Demand Load Area         152110         Image: Control of the co			<del> </del>			<del> </del>	1				<del> </del>		<del> </del>	<del> </del>	1		1		+ +	01002	20040.0
Total Demand Load Area         152110         Image: Control of the co		Total Connected Load Area	152110																		
Total Connected Load (kVA)         2150         80         330         1361         94         24         95         83         83           Total Demand Load (kVA)         1153         85         288         559         61         4         56         25         74           Total Connected Emergency Load Area (kVA)         328         27         26         150         0         23         52         8         41           Total Demand Emergency Load (kVA)         142         32         23         15         0         4         29         2         37																					
Total Connected Emergency Load Area (kVA)         328         27         26         150         0         23         52         8         41           Total Demand Emergency Load (kVA)         142         32         23         15         0         4         29         2         37		Total Connected Load (kVA)	2150	80		330		1361			94		24		95		83			83	
Total Demand Emergency Load (kVA) 142 32 23 15 0 15 0 37					85		288			559		61		4		56			25		74
				27		26		150			0		23		52		8			41	
		Total Demand Emergency Load (kVA)  Power factor			32		23			15		0		4		29			2		37

Power factor	0.88
Total Connected kW	2150
Diversity Factor	0.95
Demand kVA	1153
Demand kW	1015
W/sq.ft	6.7
Service ampacity @ 480Y/277V	1222
20% Spare Capacity	1466