

1 SCHEDULE OF LOADS (PART 4 OF 7)

EE-430

POWER PANEL "P220" (EXISTING)				MOUNTING : NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BARS								
LOCATION : EE ROOM												
OCT. NO.	LOAD DESCRIPTION	VOLT	VOLT AMPERE	AMN	ACN	ABC	AT	AF	P	INC	TYPE	NUMBER & SIZE OF WIRE & CONDUIT
1	COMMENCEMENT OUTLETS	400/230	720	3.13			20	100	1	10	MCCB	3-35mm ² L/N Wire + 1-35mm ² (G) TW IN 25mm MC
2	COMMENCEMENT OUTLETS	720	3.13									
3	COMMENCEMENT OUTLETS	900		3.91								
4	HAND DRYER	1000		4.35								
5	COMMENCEMENT OUTLETS	1800		7.83								
6	COMMENCEMENT OUTLETS	1260		5.48								
7	COMMENCEMENT OUTLETS	1260	5.48									
8	COMMENCEMENT OUTLETS	900	3.91									
9	PROVISION FOR PROJECTOR	500		2.17								
10	MICROWAVE OVEN	1500		6.52								
11	REFRIGERATOR	500		2.17								
12	HAND DRYER	1000		4.35								
13	HAND DRYER	1000		4.35								
14	COMMENCEMENT OUTLETS	1620	7.04									
15	COMMENCEMENT OUTLETS	1440		6.26								
16	PROVISION FOR PROJECTOR	1000		4.35								
17	MICROWAVE OVEN	1500		6.52								
18	COMMENCEMENT OUTLETS	1080		4.70								
19	SPARE	250	1.09									
20	SPARE	250	1.09									
21	SPARE	250	1.09									
22	SPARE	250	1.09									
23	WATER HEATER @ 100%	3500	15.22				30					2-20mm ² L/N Wire + 1-20mm ² (G) TW IN 25mm MC
24	WATER HEATER @ 20%	3500	15.22									
				35.32	44.96	31.85						
$I_L = 44.96 \times 70\% D.F. = 31.47 \text{ AMPS}$												
USE : 4-8.0mm ² (L/N) THIN + 1-5.5mm ² (G) TW IN 25mm MC (Y8.0)												
MANN : 100A, 100AF, 3P, 400V, 10 KAC MCCB												

POWER PANEL "P220C" (EXISTING)			MOUNTING : NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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DXT. NO.	LOAD DESCRIPTION	VOLT	VOLT AMPERE	4W	5W	6W	7W	8W	9W	10W	11W	12W	13W	14W	15W	16W	17W	18W	19W	20W	21W	22W	23W	24W	25W	26W	27W	28W	29W	30W	31W	32W	33W	34W	35W	36W	37W	38W	39W	40W	41W	42W	43W	44W	45W	46W	47W	48W	49W	50W	51W	52W	53W	54W	55W	56W	57W	58W	59W	60W	61W	62W	63W	64W	65W	66W	67W	68W	69W	70W	71W	72W	73W	74W	75W	76W	77W	78W	79W	80W	81W	82W	83W	84W	85W	86W	87W	88W	89W	90W	91W	92W	93W	94W	95W	96W	97W	98W	99W	100W																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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POWER PANEL "P221" (EXISTING)				MOUNTING : NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.								
LOCATION : EE ROOM												
OCT. NO.	LOAD DESCRIPTION	VOLT	VOLT AMPERE	AMPERE LOAD	PROTECTION				NUMBER & SIZE OF WIRE & CONDUIT			
				AMN	ACH	ANC	AT	AT	P	INC TYPE		
1	COMMENCEMENT OUTLETS	400/230	720	3.13			20	100	1	10	MCCB	3-35mm ² L/N THIN + 1-55mm ² (G) TW IN 25mm MC
2	COMMENCEMENT OUTLETS		720	3.13								
3	COMMENCEMENT OUTLETS		900		3.91							
4	COMMENCEMENT OUTLETS		1260		5.48							
5	COMMENCEMENT OUTLETS		1800		7.83							
6	HAND DRYER		1000		4.35							
7	REFRIGERATOR		500	2.17								
8	COMMENCEMENT OUTLETS		1440	6.26								
9	PROVISION FOR PROJECTOR		1000	4.35								
10	MICROWAVE OVEN		1500	6.52								
11	COMMENCEMENT OUTLETS		1620		7.04							
12	HAND DRYER		1000		4.35							
13	HAND DRYER		1000		4.35							
14	PROVISION FOR PROJECTOR		1500	6.52								
15	COMMENCEMENT OUTLETS		1800		7.83							
16	PROVISION FOR PROJECTOR		1000	4.35								
17	COMMENCEMENT OUTLETS		1440		6.26							
18	COMMENCEMENT OUTLETS		1080		4.70							
19	MICROWAVE OVEN		1500	6.52								
20	COMMENCEMENT OUTLETS		1080	4.70								
21	PROVISION FOR PROJECTOR		500	2.17								
22	SPARE		250	1.09								
23	SPARE		250	1.09								
24	SPACE											
				36.78	38.35	35.62						
$I_L = 36.78 \times 80\% D.F. = 29.42 \text{ AMPS}$ USE : 4-8.0mm ² (L/N) THIN + 1-5.5mm ² (G) TW IN 25mm MC (Y8.0) MANN : 40A, 100AF, 3P, 400V, 10 KAC MCCB												

NOTES:
 REV #1.1 - UTILIZATION OF "SPACE", TO BE PROVIDED WITH CIRCUIT BREAKER FOR TAPPING OF ADDITIONAL LOAD/PANELBOARD.
 (BROADER RATING AS INDICATED)
 REV #1.2 - UTILIZATION OF "SPACE" CIRCUIT BREAKER WITH UPGRATED RATING AS INDICATED.
 REV #1.3 - UTILIZATION OF EXISTING PANELBOARD FROM OTHER FLOOR.
 REV #1.4 - UPGRADING/REPLACEMENT OF EXISTING BRANCH CIRCUIT BREAKER RATING AS INDICATED.
 REV #1.5 - EXISTING BRANCH CIRCUIT BREAKER TO "SPACE" BRANCH CIRCUIT BREAKER.
 REV #1.6 - REVISED LOAD DESCRIPTION.
 REV #1.7 - ADDITIONAL PANELBOARD FOR ADDITIONAL LOADS.
 REV #1.8 - BRANCH CIRCUIT BREAKER UTILIZED AS "SPACE".

POWER PANEL "P221C" (EXISTING)				MOUNTING : NEMA 1, SURFACE MOUNTED WITH GRAY POWDER COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND AND NEUTRAL BUS.							
LOCATION : EE ROOM											
OCT. NO.	LOAD DESCRIPTION	VOLT	VOLT AMPERE	AMPERE LOAD	PROTECTION				NUMBER & SIZE OF WIRE & CONDUIT		
			WH	WH	WH	AT	P	HAC	TYPE		
1	COMMENCEMENT OUTLETS	400/230	1440	6.26	20	100	1	10	MCCB	3-35mm ² L/N THIN + 1-55mm ² (G) TW IN 25mm MC	
2	COMMENCEMENT OUTLETS		1260	5.48							
3	COMMENCEMENT OUTLETS		1080	4.70							
4	COMMENCEMENT OUTLETS		1080	4.70							
5	COMMENCEMENT OUTLETS		1440	6.26							
6	COMMENCEMENT OUTLETS		1440	6.26							
7	COMMENCEMENT OUTLETS		1080	4.70							
8	COMMENCEMENT OUTLETS		1260	5.48							
9	COMMENCEMENT OUTLETS		1260	5.48							
10	COMMENCEMENT OUTLETS		1080	4.70							
11	COMMENCEMENT OUTLETS		1440	6.26							
12	COMMENCEMENT OUTLETS		1800	7.83							
13	COMMENCEMENT OUTLETS		1080	4.70							
14	COMMENCEMENT OUTLETS		1260	5.48							
15	COMMENCEMENT OUTLETS		1440	6.26							
16	COMMENCEMENT OUTLETS		1080	4.70							
17	SPARE		250	1.09							
18	SPARE		250	1.09							
19	SPARE		250	1.09							
20	SPARE		250	1.09							
21	SPARE		250	1.09							
22	SPARE		250	1.09							
23	SPARE		250	1.09							
24	SPARE		250	1.09							
25	SPARE		250	1.09							
26	SPARE		250	1.09							
27	SPARE		250	1.09							
28	SPARE		250	1.09							
29	SPARE		250	1.09							
30	SPARE		250	1.09							
31	SPARE		250	1.09							
32	SPARE		250	1.09							
33	SPARE		250	1.09							
34	SPARE		250	1.09							
35	SPARE		250	1.09							
36	SPARE		250	1.09							
37	SPARE		250	1.09							
38	SPARE		250	1.09							
39	SPARE		250	1.09							
40	WATER HEATER @ 21F		3500	15.22	30						
				60.82	38.17	50.55					
										3-35mm ² L/N THIN + 1-55mm ² (G) TW IN 25mm MC	