

# MAIN SWITCHBOARD SCHEDULE

SWITCHBOARD CHARACTERISTICS:  
VOLTS: 277/480  
PHASES: 3  
WIRES: 4  
SOLID NEUTRAL GROUND BAR

LOCATION: MECHANICAL E209 / E24  
MAIN BREAKER: 2000 AF, 2000AT  
SURGE PROTECTIVE DEVICE  
MINIMUM SHORT CIRCUIT RATING: 42,000 RMS SYM AMPS

TRACE ALL CIRCUITS  
SERVICE ENTRANCE RATED  
PHASE 1

SPACE NO.	DESCRIPTION	CONNECTED			BREAKER CHARACTERISTICS						BRANCH CIRCUIT								
		KVA	AMPS			LONG TIME		SHORT TIME		GROUND FAULT		NO. & WIRE SIZE							
			A	B	C	P	AF	AT	SETTING	DELAY (MIN)	INST	SETTING	DELAY (MIN)	SETTING	DELAY (MIN)	PHASE	NEUT.	EGC	CONDUIT SIZE
1	SPARE (FUTURE WELDING PANEL)				3	600	500	**	**	**	**	**	**	N/A	N/A				
2	PANEL R				3	400	400	**	**	**	**	**	**	N/A	N/A	ETR	ETR	ETR	ETR
3	PANEL B				3	100	300	**	**	**	**	**	**	N/A	N/A	ETR	ETR	ETR	ETR
4	TRANSFORMER - PANEE E				3	100	70	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
5	TRANSFORMER - PANEE F				3	100	100	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
6	TRANSFORMER - PANELS G & CC				3	100	70	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
7	PANEL H				3	225	150	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
8	TRANSFORMER - PANEL K				3	100	70	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
9	PANEL N				3	225	200	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
10	TRANSFORMER - PANEL M				3	100	50	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
11	SPARE				3	100	20	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
12	PANEL P				3	225	200	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
13	PANEL AA				3	225	125	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
14	PANEL A				3	400	400	**	**	**	**	**	**	N/A	N/A	ETR	ETR	ETR	ETR
15	CHILLER STARTER				3	225	175*	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
16	TRANSFORMER - PANEL U				3	100	50	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
17	PANEL V				3	225	200	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
18	TRANSFORMER - ELECTRONICS LAB 30 KVA				3	100	40	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
19	TRANSFORMER - ELECTRONICS LAB 75 KVA				3	100	90	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
20	SPARE?				3	225	175	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
21	MOTOR CONTROL CENTER				3	225	225	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
22	AC UNIT DATA PROCESSING				3	100	60	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
23	AC UNIT DATA PROCESSING				3	100	30	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
24	PANEL DD				3	10	50	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
25	PUMP 1 (NOTE 1)				3	100	30	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
26	PUMP 2 (NOTE 1)				3	100	30	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
27	BOILER PUMPS #1, 2, 3 (NOTE 1)				3	100	20	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
28	SPARE				3	100	30	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
29	SPARE				3	100	20	**	**	N/A	N/A	N/A	N/A	N/A	N/A	ETR	ETR	ETR	ETR
TOTALS																			

\*=> CONTRACTOR TO VERIFY SIZE IN FIELD PRIOR TO ORDER  
\*\*=> SETTINGS PER COORDINATION STUDY

# PANEL "A" SCHEDULE

PANELBOARD CHARACTERISTICS:  
VOLTS: 277/480  
PHASES: 3  
WIRES: 4

LOCATION: MAIN OFFICE SUITE / E23  
SOLID NEUTRAL  
GROUND BAR  
MINIMUM SHORT CIRCUIT RATING: 42,000 RMS SYM AMPS

MANUFACTURER, CAT. NO: GE NHB

TRACE ALL CIRCUITS  
MAIN LUGS: 400 AMPERES  
PHASE 1

CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN. AMPS			BREAKER			NO. & WIRE SIZE			CONDUIT SIZE
				A	B	C	P	AF	AT	PHASE	NEUT.	EGC	
1	1	LIGHTS: 100-106, 110-113					1	100	20	ETR	ETR	ETR	ETR
3	3	LIGHTS: 100, 126					1	100	20	ETR	ETR	ETR	ETR
5	5	LIGHTS: 148					1	100	20	ETR	ETR	ETR	ETR
7	7	LIGHTS: 127, 146, 147					1	100	20	ETR	ETR	ETR	ETR
9	9	LIGHTS: 129					1	100	20	ETR	ETR	ETR	ETR
11	11	LIGHTS: 116					1	100	20	ETR	ETR	ETR	ETR
13	13	LIGHTS: 116					1	100	20	ETR	ETR	ETR	ETR
15	15	LIGHTS: 116					1	100	20	ETR	ETR	ETR	ETR
17	17	LIGHTS: 123					1	100	20	ETR	ETR	ETR	ETR
19													
21	21	A.C.#6					3	100	20	ETR	ETR	ETR	ETR
23													
25													
27	27	KITCHEN HOOD #2					3	100	90	ETR	ETR	ETR	ETR
29													
31													
33	33	KITCHEN HOOD #1					3	100	70	ETR	ETR	ETR	ETR
35													
37	37	SPARE?					1	100	20	ETR	ETR	ETR	ETR
39	39	SPARE?					1	100	20	ETR	ETR	ETR	ETR
41	41	SPARE?					1	100	20	ETR	ETR	ETR	ETR
43		SPACE AND BUS ONLY					1	100					
45		"					"	"					
47		"					"	"					
2	2	LIGHTS: 107, 111					1	100	20	ETR	ETR	ETR	ETR
4	4	LIGHTS: 149					1	100	20	ETR	ETR	ETR	ETR
6	6	LIGHTS: 149					1	100	20	ETR	ETR	ETR	ETR
8	8	LIGHTS: 150					1	100	20	ETR	ETR	ETR	ETR
10	10	LIGHTS: 141					1	100	20	ETR	ETR	ETR	ETR
12													
14	14	A.C.#8					3	100	20	ETR	ETR	ETR	ETR
16													
18		SPACE AND BUS ONLY					1	100					
20													
22	22	A.C.#7					3	100	20	ETR	ETR	ETR	ETR
24													
26													
28	28	KITCHEN HOOD #3					3	100	60	ETR	ETR	ETR	ETR
30													
32													
34	34	KITCHEN HOOD #2					3	100	90	ETR	ETR	ETR	ETR
36													
38	38	LIGHTS: 138					1	100	20	ETR	ETR	ETR	ETR
40	40	LIGHTS: 130					1	100	20	ETR	ETR	ETR	ETR
42	42	LIGHTS: 130					1	100	20	ETR	ETR	ETR	ETR
44													
46	46	FUTURE TRANSFORMER					3	100	45*				NOTE 2
48													
TOTALS													

\*=> HANDLE-LOCKING DEVICE

# PANEL "U" SCHEDULE

PANELBOARD CHARACTERISTICS:  
VOLTS: 120/208  
PHASES: 3  
WIRES: 4

LOCATION: MASONRY 218 / E2.1  
SOLID NEUTRAL  
GROUND BAR  
MINIMUM SHORT CIRCUIT RATING: 10,000 RMS SYM AMPS

MANUFACTURER, CAT. NO: GE NLAB

TRACE ALL CIRCUITS  
MAIN LUGS: 100 AMPERES  
PHASE 1

CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN. AMPS			BREAKER			NO. & WIRE SIZE			CONDUIT SIZE
				A	B	C	P	AF	AT	PHASE	NEUT.	EGC	
1	1	PORTABLE MIXER					2	100	20	ETR	ETR	ETR	ETR
3													
5	5	SAW (OUTSIDE)					2	100	30	ETR	ETR	ETR	ETR
7													
9	9	SPARE?					1	100	20	ETR	ETR	ETR	ETR
11	11	SPARE?					1	100	20	ETR	ETR	ETR	ETR
13	13	SPARE?					1	100	20	ETR	ETR	ETR	ETR
15	15	SPARE?					2	100	30	ETR	ETR	ETR	ETR
17													
19	19	SPARE?					2	100	30	ETR	ETR	ETR	ETR
21													
23		SPACE AND BUS ONLY					1	100					
2	2	SAW					2	100	30	ETR	ETR	ETR	ETR
4													
6	6	SPARE					1	100	20	ETR	ETR	ETR	ETR
8	8	CLOCK 197-196, REC. 196, 196, 199					1	100	20	ETR	ETR	ETR	ETR
10	10	SPARE					1	100	20	ETR	ETR	ETR	ETR
12	12	REC. ROOM 197					1	100	20	ETR	ETR	ETR	ETR
14	14	SPARE					1	100	20	ETR	ETR	ETR	ETR
16	16	SPARE					2	100	60	ETR	ETR	ETR	ETR
18													
20	20	SPARE?					2	100	60	ETR	ETR	ETR	ETR
22													
24	24	SPACE AND BUS ONLY					1	100					
TOTALS													

## NOTES (SHEET NO. E3.1)

- AS PART OF PHASE 2 SCOPE, MOVE INDICATED CIRCUITS FROM MCC TO SWITCHBOARD. EXTEND WIRING AS NECESSARY. SWITCH CIRCUITS OVER TO SWITCHBOARD BEFORE DEMOLITION OF MCC.
- NEW BREAKER INCLUDED IN NEW PANELBOARD TO SUPPORT FUTURE HOOD UPGRADE PROJECT. WHILE PANEL IS REMOVED FROM WALL, STUB A 1" CONDUIT UP INTO THE ACCESSIBLE CEILING SPACE AND CONNECT TO NEW PANEL BOX. INSTALL PULL STRING.

- REVISIONS:  
1. 2021-10-12  
PANEL "A"  
2. 2021-10-21  
WELDING BREAKER



**MASTER**  
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CATEC  
ELECTRICAL EQUIPMENT  
REPLACEMENT PROJECT  
CHARLOTTESVILLE, VA 22903

PANEL SCHEDULES -  
PHASE 1 (SHEET 1 OF 3)

DATE ISSUED: 09/09/21

SCALE: NONE

JOB. NO. 653-014

DESIGNED: JHR

DRAWN: JHR

CHECKED: MGB

APPROVED: MGB

DRAWING NO.