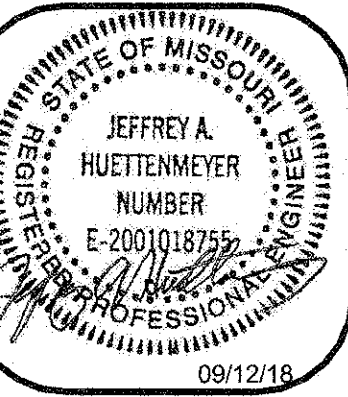


ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

- VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
- AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.



Jeffrey A. Huettnermeyer
PE-2001016755

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

- EXAMPLES
- AF PROVIDE AFCI BREAKER
 - GF PROVIDE GFCI BREAKER
 - SH PROVIDE SHUNT TRIP BREAKER
 - LC CIRCUIT CONTROLLED VIA LIGHTING CONTROL PANEL
 - IG PROVIDE ISOLATED GROUND
 - EX EXISTING LOAD TO REMAIN

Branch Panel: P1

Location: MECH/ELEC 121
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18K
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes: PANEL SHALL BE A SINGLE SECTION 84 POLE PANEL WITH THROUGH FEED LUGS.

CKT	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT
	1	LG OFFICE & CONFERENCE RM...	20 A	1	714 VA			900 VA			1	20 A	FILES 137	2	
	3	STORAGE & SOUTH OFFICE...	20 A	1		1226 VA			1000 VA		1	20 A	FILES 137	4	
	5	OFFICE LIGHTING	20 A	1			1104 VA			1000 VA	1	20 A	BREAK 141 FRIDGE	6	
	7	CORRIDOR LIGHTING	20 A	1	1207 VA			1100 VA			2	20 A	BREAK 141 - RANGE	8	
	9	OPEN OFFICE LIGHTING	20 A	1		1592 VA			1100 VA		--	--		10	--
	11	WORKROOM & SERVER RM...	20 A	1			310 VA			540 VA	1	20 A	BREAK 141	12	
	13	BATHROOMS & BREAK RM LIGHTING	20 A	1	402 VA			540 VA			1	20 A	BREAK 141	14	
	15	EXTERIOR WALLPACKS	20 A	1		1111 VA			1080 VA		1	20 A	OFFICE 134,135,136,147,148,149	16	
	17	FACP	20 A	1			500 VA			1080 VA	1	20 A	OFFICE 134,135,136,147,148,149	18	
	19	PARKING LOT LIGHTING	20 A	2	408 VA			1080 VA			1	20 A	OFFICE 134,135,136,147,148,149	20	
	21	--	--	--	408 VA			360 VA			1	20 A	OFFICE 134,135,136,147,148,149	22	
	23	RECEPTION 110	20 A	1			540 VA			1080 VA	1	20 A	OFFICE 134,135,136,147,148,149	24	
	25	BREAK 141 HOOD	20 A	1	300 VA			1080 VA			1	20 A	OFFICE 134,135,136,147,148,149	26	
	27	RECEPTION 110	20 A	1		720 VA			1080 VA		1	20 A	OFFICE 138,139,140,144,144,145,146	28	
	29	RECEPTION 110	20 A	1			360 VA			1080 VA	1	20 A	OFFICE 138,139,140,144,144,145,146	30	
	31	L.L. WORKROOM 111	20 A	1	1080 VA			1080 VA			1	20 A	OFFICE 138,139,140,144,144,145,146	32	
	33	L.L. WORKROOM 111	20 A	1		1500 VA			1200 VA		1	20 A	BREAK MICROWAVE	34	
	35	WORKROOM 111	20 A	1			720 VA			1080 VA	1	20 A	OFFICE 138,139,140,144,144,145,146	36	
	37	WORKROOM 111	20 A	1		720 VA			1080 VA		1	20 A	OFFICE 138,139,140,144,144,145,146	38	
	39	COPIER WORKROOM	20 A	1		1500 VA			900 VA		1	20 A	EXTERIOR RECEPTACLES	40	
	41	SERVER/IT 112	20 A	1			360 VA			1260 VA	1	20 A	EXTERIOR RECEPTACLES	42	
	43	SERVER/IT 112	20 A	1	360 VA			1256 VA			2	15 A	FCU-01-22	44	
	45	WORKROOM 111, IT 112, STORAGE...	20 A	1		1260 VA			1256 VA		--	--		46	--
	47	CONFERENCE 114	20 A	1			1140 VA			895 VA	2	15 A	FCU-19	48	
	49	CONFERENCE 114	20 A	1	1080 VA			895 VA			--	--		50	--
	51	SE RESTROOMS, CONFERENCE 114	20 A	1		900 VA			895 VA		2	15 A	FCU-20	52	
	53	SE RESTROOMS, CONFERENCE 114	20 A	1			360 VA			895 VA	--	--		54	--
	55	MOTHERS 119	20 A	1	600 VA			52 VA			1	15 A	EF-4-6	56	
	57	OPEN OFFICE 120	20 A	1		1260 VA			781 VA		2	15 A	OAP-01, FCU-23-26, FCU-4	58	
	59	OPEN OFFICE 120	20 A	1			1260 VA			781 VA	--	--		60	--
	61	WS-1	20 A	1	180 VA			1200 VA			1	20 A	BULK STORAGE DOOR OPENER	62	
	63	OFFICE 122-124	20 A	1		720 VA			180 VA		1	20 A	LOBBY 107	64	
	65	OFFICE 122-124	20 A	1			720 VA			360 VA	1	20 A	MENS 108/WOMENS 109	66	
	67	OFFICE 122-124	20 A	1	360 VA			1080 VA			1	20 A	VESTIBULE 127, CORRIDOR	68	
	69	CORRIDOR, BULK STORAGE 125	20 A	1		1080 VA			1000 VA		1	20 A	DISHWASHER	70	
	71	OFFICE 129	20 A	1		360 VA			0 VA		3	30 A	SPD	72	
	73	OFFICE 129	20 A	1	540 VA			0 VA			--	--		74	--
	75	Conference 130	20 A	1		600 VA			0 VA		--	--		76	--
	77	Conference 130/Restroom 131	20 A	1			540 VA			1362 VA	2	20 A	BP-1	78	
	79	Conference 130/Office 132	20 A	1	900 VA			1362 VA			--	--		80	--
	81	Conference 130/Office 132	20 A	1		720 VA			700 VA		2	15 A	ERU-02	82	
	83	Conference 130/Office 132	20 A	1			720 VA			700 VA	--	--		84	--
		Total Load:			21555 VA			26128 VA							
		Total Amps:			180 A			218 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	6907 VA	125.00%	8634 VA	
Power	1980 VA	100.00%	1980 VA	Total Conn. Load: 68888 VA
Motor	12894 VA	100.00%	12894 VA	Total Est. Demand: 54525 VA
Other	2466 VA	100.00%	2466 VA	Total Conn. Current: 191 A
Receptacle	43000 VA	61.63%	26500 VA	Total Est. Demand Current: 151 A
Lighting - Exterior	1641 VA	125.00%	2051 VA	

Notes:

Switchboard: MDP

Location: MECH/ELEC 121
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18K
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	SPD	3	100 A	60 A	0 VA	
2	P1	3	250 A	225 A	68477 VA	
3	P2	3	100 A	100 A	4410 VA	
4	P3	3	250 A	250 A	39158 VA	
5	HP-1A	3	100 A	70 A	15059 VA	
6	HP-1B	3	100 A	70 A	15059 VA	
7	SPARE	3	250 A	0 A	0 VA	
8	SPARE	3	250 A	0 A	0 VA	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
	Total Conn. Load:				142694 VA	
	Total Amps:				396 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	9639 VA	125.00%	12049 VA	
Power	3420 VA	100.00%	3420 VA	Total Conn. Load: 142694 VA
Motor	16794 VA	100.00%	16794 VA	Total Est. Demand: 122224 VA
HVAC	15226 VA	100.00%	15226 VA	Total Conn. Current: 396 A
Electric Heat	2000 VA	100.00%	2000 VA	Total Est. Demand Current: 339 A
Other	32584 VA	100.00%	32584 VA	
Receptacle	56580 VA	58.84%	33290 VA	
Lighting - Exterior	1641 VA	125.00%	2051 VA	
Heating	4810 VA	100.00%	4810 VA	

Notes:

CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY #
SSC ENGINEERING, INC.
MECHANICAL/ELECTRICAL/PLUMBING ENGINEER
MISSOURI STATE CERTIFICATE OF AUTHORITY #001244
SSC ENGINEERING, INC.
STRUCTURAL ENGINEER
MISSOURI STATE CERTIFICATE OF AUTHORITY #001244



Missouri State Certificate of Authority # 000143
631 West Main Street
Jefferson City, Missouri
(573) 636-5000 phone

ELECTRICAL PANEL SCHEDULES

MISSOURI SOYBEAN INNOVATION CENTER
NEW OFFICE BUILDING
734 S. COUNTRY CLUB DRIVE
JEFFERSON CITY, MISSOURI

PROJECT NO. 1613
DATE: Sept. 12, 2016

E0.4

2017349 - BID/PERMIT SET - 09-12-18

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