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PE-2001018755

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.  
ELECTRICAL 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, 2018

**E0.5**

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

### Branch Panel: P2

Location: MECHANICAL 103  
Supply From: MDP  
Mounting: Surface  
Enclosure: Type 1

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

A.I.C. Rating: 10K  
Mains Type: MLO  
Mains Rating: 100 A  
MCB Rating:

Notes:

CKT	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT
1	EDUCATION LIGHTING	20 A	1	719 VA			0 VA				1	20 A	Spare	2	
3	EDUCATION RECEPTACLES	20 A	1	1080 VA			0 VA				1	20 A	Spare	4	
5	EDUCATION RECEPTACLES	20 A	1		720 VA		0 VA				1	20 A	Spare	6	
7	GARAGE DOOR	20 A	1	1200 VA			0 VA				1	20 A	Spare	8	
9	EDUCATION TV'S	20 A	1		720 VA		0 VA				1	20 A	Spare	10	
11	Spare	20 A	1			0 VA					1	20 A	Spare	12	
13	Spare	20 A	1	0 VA			0 VA				1	20 A	Spare	14	
15	Spare	20 A	1		0 VA			0 VA			1	20 A	Spare	16	
17	Spare	20 A	1			0 VA			0 VA		1	20 A	Spare	18	
19	Spare	20 A	1	0 VA			0 VA				1	20 A	Spare	20	
21	Spare	20 A	1		0 VA			0 VA			1	20 A	Spare	22	
23	Spare	20 A	1			0 VA			0 VA		1	20 A	Spare	24	
25	Space	--	--	0 VA			0 VA				3	30 A	SPD	26	
27	Space	--	--			0 VA			0 VA		--	--		28	
29	Space	--	--				0 VA			0 VA	--	--		30	
<b>Total Load:</b>					1919 VA		1800 VA		720 VA						
<b>Total Amps:</b>					17 A		16 A		6 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	720 VA	125.00%	900 VA	
Power	720 VA	100.00%	720 VA	<b>Total Conn. Load:</b> 4440 VA
Motor	1200 VA	100.00%	1200 VA	<b>Total Est. Demand:</b> 4620 VA
Receptacle	1800 VA	100.00%	1800 VA	<b>Total Conn. Current:</b> 12 A
				<b>Total Est. Demand Current:</b> 13 A

Notes:

### Branch Panel: P3

Location: MECHANICAL 103  
Supply From: MDP  
Mounting: Surface  
Enclosure: Type 1

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

A.I.C. Rating: 10K  
Mains Type: MLO  
Mains Rating: 225 A  
MCB Rating:

Notes:

CKT	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT
1	COMMUNITY ROOM LIGHTING	20 A	1	1764 VA			1882 VA				2	30 A	CU-01	2	
3	LIGHTING	20 A	1		242 VA			1882 VA			--	--		4	
5	EXTERIOR RECEPTACLES	20 A	1				900 VA			1308 VA	1	15 A	F-01	6	
7	COMMUNITY ROOM RECEPTACLES	20 A	1	1080 VA				1764 VA			1	20 A	F-02	8	
9	COMMUNITY ROOM RECEPTACLES	20 A	1		360 VA				1738 VA		1	20 A	F-03	10	
11	COMMUNITY ROOM RECEPTACLES	20 A	1			360 VA				0 VA	1	20 A	FAPS	12	
13	COMMUNITY ROOM RECEPTACLES	20 A	1	1080 VA				300 VA			1	20 A	OWH-01	14	
15	MECHANICAL RM RECEPTACLE	20 A	1		540 VA				1500 VA		1	20 A	Receptacle	16	
17	CATERING RECEPTACLES	20 A	1			180 VA				360 VA	1	20 A	MECHANICAL RM RECEPTACLE	18	
19	CATERING RECEPTACLES	20 A	1	180 VA				900 VA			3	15 A	ERU-01	20	
21	REFRIGERATOR	20 A	1		1000 VA				900 VA		--	--		22	
23	REFRIGERATOR	20 A	1			1000 VA				900 VA	--	--		24	
25	CATERING RECEPTACLES	20 A	1	360 VA				180 VA			1	20 A	CATERING RECEPTACLES	26	
27	ICE MACHINE	20 A	1		1200 VA									28	
29	EBH-02	20 A	1			1250 VA				0 VA	1	20 A	Spare	30	
31	EBH-01	20 A	1	750 VA				0 VA			1	20 A	Spare	32	
33	CU-03	50 A	2	3557 VA				0 VA			1	20 A	Spare	34	
35	--	--	--			3557 VA			0 VA		1	20 A	Spare	36	
37	CU-02	35 A	2	2174 VA				0 VA			3	30 A	SPD	38	
39	--	--	--			2174 VA			0 VA		--	--		40	
41	IT Rack	20 A	1			1920 VA			0 VA		--	--		42	
<b>Total Load:</b>					12414 VA		15092 VA		11735 VA						
<b>Total Amps:</b>					104 A		127 A		98 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	2012 VA	125.00%	2515 VA	
Power	720 VA	100.00%	720 VA	<b>Total Conn. Load:</b> 39248 VA
Motor	2700 VA	100.00%	2700 VA	<b>Total Est. Demand:</b> 38861 VA
HVAC	15226 VA	100.00%	15226 VA	<b>Total Conn. Current:</b> 109 A
Electric Heat	2000 VA	100.00%	2000 VA	<b>Total Est. Demand Current:</b> 108 A
Other	0 VA	0.00%	0 VA	
Receptacle	11780 VA	92.44%	10890 VA	
Heating	4810 VA	100.00%	4810 VA	

Notes:

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