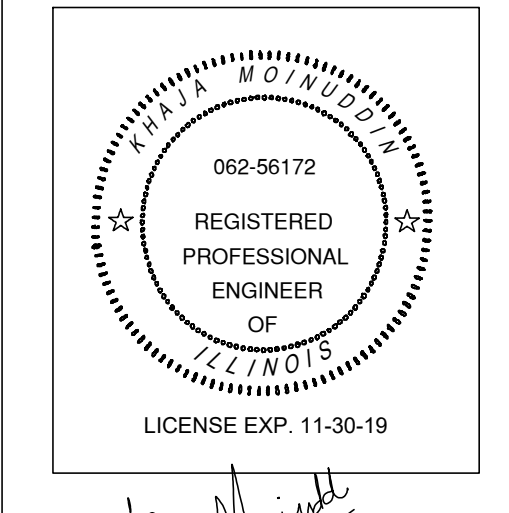


CONSULTANTS

INSPIRED
MEP DESIGN
INSPIRED TECHNOLOGY CONCEPTS
142 GROSVEN AVE.
ELK GREEVE, IL
TEL#847-258-5552

STATEMENT OF COMPLIANCE
Seal



ISSUE FOR	DATE
REVIEW	10/16/17
REVIEW	10/25/17
REVIEW	11/14/17
REVIEW	11/20/17
REVIEW	11/29/17
PERMIT REVIEW	1/29/18

DRAWN BY:
APPROVED:
PROJECT NO.
DATE
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TENANT IMPROVEMENTS FOR:
**PIONEER
CHILD CARE
SERVICES, INC.**
18W375 E. ROOSEVELT RD.
DUPAGE CTY., ILLINOIS

SHEET DESCRIPTION
**SINGLE LINE DIAGRAM
SPECIFICATION**

SHEET NUMBER
E-1

3PH, 4W 208/120V 600A BUS		PANEL-MDP (EXISTING) 65KAIC						BOTTOM FEED SURFACE MOUNT LOCATION:				
SL.NO.	DESCRIPTION	A	B	C	BRK	BRK	A	B	C	SL.NO.		
1	RTU-2	8,190			80/3	80/3	8,190			RTU-1	2	
3	-		8,190		-	-	8,190			-	4	
5	-			8,190	-	-		8,190		-	6	
7	SPARE	0			100/3	50/3	4,659			RTU-3	8	
9	-		0		-	-		4,659		-	10	
11	-			0	-	-			4,659	-	12	
13	SPARE	0			200/3	30/3	2,162			RTU-4	14	
15	-		0		-	-		2,162		-	16	
17	-			0	-	-			2,162	-	18	
19	EXISTING PP	19,214	19,214		400/3	-				SPACE	20	
21	-			19,214	-	-				-	22	
23	-				19,214	-				-	24	
TOTAL VA		27,403	27,403	27,403			15,011	15,011	15,011			
PHASE-A												
PHASE-B												
PHASE-C												
TOTAL CONNECTED VA		127,242					DEMAND LOAD		159,053.02			
TOTAL AMPS		353.2					DEMAND AMPS		441.50			

NOTE:
** LIGHTING CIRCUITS SERVING EMERGENCY AND EXIT SIGNS & FIRE ALARM TO HAVE HANDLE LOCKED.

3PH, 4W 208/120V 125 BUS		PANEL-LP2 (EXISTING) 22KAIC						BOTTOM FEED SURFACE MOUNT LOCATION:				
SL.NO.	DESCRIPTION	A	B	C	BRK	BRK	A	B	C	SL.NO.		
1	RECEPTACLES-ROCKIN Rm # 110	1,440			20/1	20/1	1,440			RECEPTACLE-PRE-K Rm # 107	2	
3	RECEPTACLES-MOTOR Rm # 105		1,440		20/1	20/1		1,260		RECEPTACLES-RM # 113	4	
5	RECEPTACLES-MOTOR Rm # 105			1,440	20/1	20/1			900	RECEPTACLES-BEEHIVE Rm # 118	6	
7	RECEPTACLES-KITCHEN COUNTR	540			20/1	20/1	1,100			RECEPTACLES-KITCHEN COUNTER	8	
9	RECEPTACLES-WASHER		1,500		20/1	20/1		900		REFRIGERATOR	10	
11	RECEPTACLES-PRIVATE OFFICE			900	20/1	20/1			1,260	FREEZER	12	
13	DRYER	2,500			30/2	20/1	900			RECEPTACLES-CORRIDOR	14	
15	DRYER		2,500		-	20/1		900		RECEPTACLES-PRIVATE OFFICE	16	
17	SHOW WINDOW RECEPTACLE			1,400	20/1	20/1		1,400		SHOW WINDOW RECEPTACLE	18	
19	SHOW WINDOW RECEPTACLE	1,400			20/1	20/1	1,400			SHOW WINDOW RECEPTACLE	20	
21	SHOW WINDOW RECEPTACLE		1,400		20/1	20/1				SPARE	22	
23	Pop Corn Oven			1,500	20/2	20/1				SPARE	24	
25	-		1,500		-	20/1				SPARE	26	
27	SPARE				20/1	20/1				SPARE	28	
29	SPARE				20/1	20/1				SPARE	30	
31	SPARE				20/1	20/1				SPARE	32	
33	SPARE				20/1	20/1				SPARE	34	
35	SPARE				20/1	20/1				SPARE	36	
37	SPARE				20/1	20/1				SPARE	38	
39	SPARE				20/1	20/1				SPARE	40	
41	SPARE				20/1	20/1				SPARE	42	
TOTAL VA		7,380	6,840	5,240			4,840	3,060	3,560			
PHASE-A		12,220										
PHASE-B		9,900										
PHASE-C		8,800										
TOTAL CONNECTED VA		30,920					TOTAL DEMAND VA		20098			
TOTAL AMPS		85.83					TOTAL DEMAND AMPS		55.79			

DESCRIPTION	LOAD SUMMARY		
	CONNECTED LOAD VA	FACTOR %	TOTAL DEMAND VA
LIGHTING	43,624	1.25	54,530.60
POWER (100% OF 1ST 10KVA)	10,000	1	10,000.00
REMINDER 50%	20,920	0.5	10,460.00
HEATING SYSTEM	69,601	1	69,601.46
LARGEST MOTOR	24,569	0.25	6,142.36
Total VA			150,734.42
TOTAL AMPS			418.41

EXISTING 600A, 208/120V 3PHASE 4W SERVICE IS SUFFICIENT AND TO BE RE-USED

3PH, 4W 480/277V 225 BUS, 200A		PANEL-LP-1 (EXISTING) 22KAIC						BOTTOM FEED SURFACE MOUNT LOCATION:				
SL.NO.	DESCRIPTION	A	B	C	BRK	BRK	A	B	C	SL.NO.		
1	LIGHTING-ROOM # 106	330			20/1**	** 20/1	472			LIGHTING-ROOM # 105	2	
3	LIGHTING-CORR. #115		388		20/1**	** 20/1		456		LIGHTING - KITCHEN:121	4	
5	LIGHTING-OFFICE # 123			210	20/1**	** 20/1			1,500	BATHROOM LTG & POW-127	6	
7	LIGHTING- PRE-K RM # 107	484			20/1**	** 20/1	1,500			BATHROOM LTG/POWER	8	
9	LIGHTING- SUNSET # 106			352	20/1**	** 20/1			352	LIGHTING-ROCK-IN ROBBIN #11	10	
11	LIGHTING-GROWING GROUP # 113			440	20/1**	** 20/1			1,500	EXTERIOR WALL PACK	12	
13	CANOPY LIGHT (EXISTING)	640			20/1	** 20/1	200			FAO	14	
15	FUTURE SITE LIGHTING		1,000		20/1	20/1		360		OUTSIDE RECEPTACLE	16	
17	RTU-GFI			360	20/1	20/1				50 TIME CLOCK/CONTACTOR	18	
19	UNIT HEATER	1,500			25/2	20/1	850			UTILITY ROOM	20	
21	-		1,500		-	** 20/1		360		TELEPHONE BOARD	22	
23	SPARE				30/2	20/1				SPARE	24	
25	SPARE				20/1	20/1				SPARE	26	
27	SPARE				20/1	20/1				SPARE	28	
29	SPARE				20/1	20/1				SPARE	30	
31	SPARE				20/1	20/1				SPARE	32	
33	SPARE				20/1	20/1				SPARE	34	
35	SPARE				20/1	20/1				SPARE	36	
37	SUB PANEL-LP2	9,607			20/1	20/1				SPARE	38	
39	SUB PANEL-LP2		9,607		20/1	20/1				SPARE	40	
41	SUB PANEL-LP2			9,607	20/1	20/1				SPARE	42	
TOTAL VA		12,561	12,847	10,617			3,022	1,528	3,050			
PHASE-A		15,583										
PHASE-B		14,375										
PHASE-C		13,667										
TOTAL CONNECTED VA		43,624					TOTAL DEMAND VA		54530.60			
TOTAL AMPS		121.09					TOTAL DEMAND AMPS		151.37			

3PH, 4W 208/120V 400A BUS		PANEL-PP (EXISTING) 22KAIC						BOTTOM FEED SURFACE MOUNT LOCATION:				
SL.NO.	DESCRIPTION	A	B	C	BRK	BRK	A	B	C	SL.NO.		
1	SPARE	-	-	-	200/3	200/3	9,607			PANEL-LP1	2	
3	-				-	-		9,607		-	4	
5	-				-	-			9,607	-	6	
7	SPARE				100/3	100/3	-		-	-	8	
9	-				-	-		-	-	-	10	
11	-				-	-		-	-	-	12	
13	Convention Oven				60/3	60/3	-		-	SPARE	14	
15	-				-	-		-	-	-	16	
17	-				-	-		-	-	SPACE	18	
19	SURGE		1,441		30/3	30/3	-		-	-	20	
21	-		1,441		-	-		-	-	-	22	
23	-			1,441	-	-		-	-	SPARE	24	
25	-				-	-		-	-	-	26	
27	-				-	-		-	-	-	28	
29	-				-	-		-	-	-	30	
31	-				-	-		-	-	-	32	
33	-				-	-		-	-	-	34	
35	-				-	-		-	-	-	36	
37	-				-	-		-	-	-	38	
39	-				-	-		-	-	-	40	
41	-				-	-		-	-	-	42	
TOTAL VA		1,441	1,441	1,441			9,607	9,607	9,607			
PHASE-A		11,048										
PHASE-B		11,048										
PHASE-C		11,048										
TOTAL CONNECTED VA		33,144					TOTAL DEMAND VA		21543.3088			
TOTAL AMPS		92.00					TOTAL DEMAND AMPS		59.80			

