



ASSOCIATED DESIGN GROUP, INC.
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Project No. 24174

PANEL: X1A

VOLTAGE 120/208,3Ø,4W

ENCLOSURE ☒ NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION) ☒ FULLY RATED ☐ SERIES RATED

AMP ☐ FACTORY MAIN CIRCUIT BREAKER ☐ SHUNT TRIP MAIN CB ☒ MAIN LUGS ONLY ☐ UL LISTED FEED-THRU LUGS

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☒ SURFACE ☐ RECESSED ☐ FREE STANDING (FRONT ACCESS ONLY) ☐ FREE STANDING (FRONT AND REAR ACCESS)

FEED ☐ TOP ☒ BOTTOM

BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES... ☐ PLUG-ON, LOADCENTER CONSTR.

ALL COPPER BUSSING																					
CKT #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	# POLES	A	B	C	A	B	C	# POLES	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT #
1	40 A	8	10	3/4"	CU-1-1		2	1914 VA			1000 VA			1		IDF RECP	1/2"	12	12	20 A	2
3	40 A	8	10	3/4"	CU-1-2		2	1914 VA	1914 VA		1000 VA		1000 VA	1		IDF RECP	1/2"	12	12	20 A	4
5	40 A	8	10	3/4"			2	1914 VA		1000 VA			1000 VA	1		IDF RECP	1/2"	12	12	20 A	6
7							2				1000 VA			1		RACK RECP	1/2"	12	12	20 A	8
9	125 A	1	6	2"	PANEL X2A		3	6100 VA	7100 VA		2000 VA		2000 VA	2		RACK RECP	1/2"	12	12	30 A	10
11							3	6000 VA	0 VA		1000 VA			3							12
13	60 A	6	10	1	PANEL X2B		3	0 VA	0 VA		1000 VA		0 VA	3		PANEL X3A	1"	10	6	60 A	14
15							3							1							16
17	125 A	1	6	2"	PANEL X3R		3	9568 VA	9568 VA		1000 VA		0 VA	3		PANEL X4A	1"	10	6	60 A	18
19							3	7654 VA	0 VA		0 VA		0 VA	3	--						20
21	20 A	--	--	--	SPARE	--	1	0 VA				0 VA		1	--	SPD	--	--	--	60 A	22
23	20 A	--	--	--	SPARE	--	1			0 VA			0 VA	1	--						24
25	20 A	--	--	--	SPARE	--	1	0 VA			0 VA			1	--	SPARE	--	--	--	20 A	26
27	20 A	--	--	--	SPARE	--	1		0 VA			0 VA		1	--	SPARE	--	--	--	20 A	28
29	--	--	--	--	PROVISIONED SPACE	--	1						0 VA	1	--	SPARE	--	--	--	20 A	30
31	--	--	--	--	PROVISIONED SPACE	--	1	--			0 VA			1	--	SPARE	--	--	--	20 A	32
33	--	--	--	--	PROVISIONED SPACE	--	1		--	--			--	1	--	PROVISIONED SPACE	--	--	--	20 A	34
35	--	--	--	--	PROVISIONED SPACE	--	1						--	1	--	PROVISIONED SPACE	--	--	--	20 A	36
37	--	--	--	--	PROVISIONED SPACE	--	1						--	1	--	PROVISIONED SPACE	--	--	--	20 A	38
39	--	--	--	--	PROVISIONED SPACE	--	1						--	1	--	PROVISIONED SPACE	--	--	--	20 A	40
41	--	--	--	--	PROVISIONED SPACE	--	1						--	1	--	PROVISIONED SPACE	--	--	--	20 A	42

TOTAL LOAD = 55.0...
TOTAL AMPS = 153 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	0 VA	0.00%	0 VA	
RECEP	31200 VA	66.03%	20600 VA	Total Conn. Load: 65645 VA
A/C SPLIT SYSTEM	26790 VA	100.00%	26790 VA	Total Est. Load: 55.0 kVA
PUMP	7654 VA	100.00%	7654 VA	Total Conn.: 182 A
				Total Est. Amps: 153 A

Notes:

PANEL: X2A

VOLTAGE 120/208,3Ø,4W

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AMP ☐ FACTORY MAIN CIRCUIT BREAKER ☐ SHUNT TRIP MAIN CB ☒ MAIN LUGS ONLY ☐ UL LISTED FEED-THRU LUGS

NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☒ SURFACE ☐ RECESSED ☐ FREE STANDING (FRONT ACCESS ONLY) ☐ FREE STANDING (FRONT AND REAR ACCESS)

FEED ☐ TOP ☒ BOTTOM

BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES... ☐ PLUG-ON, LOADCENTER CONSTR.

ALL COPPER BUSSING																					
CKT #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	# POLES	A	B	C	A	B	C	# POLES	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT #
1	20 A	12	12	1/2"	IDF RECP		2	100 VA			1000 VA			1		IDF RECP	1/2"	12	12	20 A	2
3	20 A	--	--	--	SPARE	--	1		100 VA				1000 VA	1		IDF RECP	1/2"	12	12	20 A	4
5	20 A	--	--	--	SPARE	--	1			0 VA			1000 VA	1	--	LOIN RECP	1/2"	12	12	20 A	6
7	20 A	--	--	--	SPARE	--	1	0 VA			0 VA			1	--	SPARE	--	--	--	20 A	8
9	20 A	--	--	--	SPARE	--	1		0 VA			0 VA		1	--	SPARE	--	--	--	20 A	10
11	20 A	--	--	--	SPARE	--	1			0 VA			0 VA	1	--	SPARE	--	--	--	20 A	12
13	--	--	--	--	PROVISIONED SPACE	--	1				5000 VA			1	--						14
15	--	--	--	--	PROVISIONED SPACE	--	1					6000 VA		3	--	PANEL UPS	1"	10	6	60 A	16
17	--	--	--	--	PROVISIONED SPACE	--	1						5000 VA		--						18
19	--	--	--	--	PROVISIONED SPACE	--	1		--			--		1	--	PROVISIONED SPACE	--	--	--	--	20
21	--	--	--	--	PROVISIONED SPACE	--	1			--		--	--	1	--	PROVISIONED SPACE	--	--	--	--	22
23	--	--	--	--	PROVISIONED SPACE	--	1				--	--	--	1	--	PROVISIONED SPACE	--	--	--	--	24

TOTAL LOAD = 14.6...
TOTAL AMPS = 41 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEP	19200 VA	76.04%	14600 VA	
				Total Conn. Load: 19200 VA
				Total Est. Load: 14.6 kVA
				Total Conn.: 53 A
				Total Est. Amps: 41 A

Notes:

PANEL: X3R

VOLTAGE 120/208,3Ø,4W

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NEUTRAL ☒ 100% ☐ 200%

MOUNTING ☒ SURFACE ☐ RECESSED ☐ FREE STANDING (FRONT ACCESS ONLY) ☐ FREE STANDING (FRONT AND REAR ACCESS)

FEED ☐ TOP ☒ BOTTOM

BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES... ☐ PLUG-ON, LOADCENTER CONSTR.

ALL COPPER BUSSING																					
CKT #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	# POLES	A	B	C	A	B	C	# POLES	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT #
1	40 A	8	10	3/7	CU-3-2		2	1914 VA			1914 VA			2		CU-4-2	3/4	10	8	40 A	2
3	40 A	8	10	3/4	CU-2-2		2	1914 VA	1914 VA		1914 VA		1914 VA	2		CU-2-1	3/4	10	8	40 A	4
5	40 A	8	10	3/4			2	1914 VA		1914 VA			1914 VA	2							6
7	40 A	8	10	3/4	CU-3-1		2	1914 VA		1914 VA			1914 VA	2		CU-3-2	3/4	10	8	40 A	8
9	40 A	8	10	3/4	CU-4-1		2	1914 VA					1914 VA	2							10
11	40 A	8	10	3/4			2	1914 VA						2							12
13	40 A	8	10	3/4			2	1914 VA					0 VA	1	--	SPARE	--	--	--	20 A	14
15	20 A	--	--	--	SPARE	--	1			0 VA			0 VA	1	--	SPARE	--	--	--	20 A	16
17	20 A	--	--	--	SPARE	--	1	0 VA				0 VA		1	--	SPARE	--	--	--	20 A	18
19	20 A	--	--	--	SPARE	--	1							1	--	SPARE	--	--	--	20 A	20
21	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		22
23	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		24

TOTAL LOAD = 26.8...
TOTAL AMPS = 74 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
A/C SPLIT SYSTEM	26790 VA	100.00%	26790 VA	
				Total Conn. Load: 26790 VA
				Total Est. Load: 26.8 kVA
				Total Conn.: 74 A
				Total Est. Amps: 74 A

Notes:

PANEL: X2B

VOLTAGE 120/208,3Ø,4W

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ALL COPPER BUSSING																					
CKT #	TRIP AMPS	WIRE	GND	COND.	LOAD DESCRIPTION	NOTES	# POLES	A	B	C	A	B	C	# POLES	NOTES	LOAD DESCRIPTION	COND.	GND	WIRE	TRIP AMPS	CKT #
1	20 A	12	12	1/2"	SMOKE CURTAIN		1	0 VA			0 VA			1	--	SPARE	--	--	--	20 A	2
3	20 A	12	12	1/2"	SMOKE CURTAIN		1	0 VA			0 VA		0 VA	1	--	SPARE	--	--	--	20 A	4
5	20 A	--	--	--	SPARE	--	1			0 VA			0 VA	1	--	SPARE	--	--	--	20 A	6
7	20 A	--	--	--	SPARE	--	1	0 VA			0 VA			1	--	SPARE	--	--	--	20 A	8
9	20 A	--	--	--	SPARE	--	1			0 VA			0 VA	1	--	SPARE	--	--	--	20 A	10
11	20 A	--	--	--	SPARE	--	1			0 VA			0 VA	1	--	SPARE	--	--	--	20 A	12
13	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		14
15	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		16
17	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		18
19	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		20
21	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		22
23	--	--	--	--	PROVISIONED SPACE	--	1							1	--	PROVISIONED SPACE	--	--	--		24

TOTAL LOAD = 0.0 kVA
TOTAL AMPS = 0 A