

Branch Panel: MA-5

Location: Supply From: Mounting: Recessed Enclosure: NEMA 1

Volts: 120/240 Single Phases: 1 Wires: 3

A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	20 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 2250 VA	4500 VA 2250 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2500 VA 750 VA	2500 VA 750 VA	1	20 A	Washer	10	
11									12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 1200 VA	1	20 A	Garbage Disposal	16	
17	Dinning Receptacles	20 A	1	340 VA 815 VA	340 VA 1200 VA	1	20 A	Microwave	18	
19	Cooling	20 A	1	383 VA 688 VA	383 VA 688 VA	1	20 A	Refrigerator	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Lights	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Water Proof Receptacles	24	
25	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Bedroom 1 Receptacles	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	32	
33	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	34	
35	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	36	
				Total Load:	17735 VA	19456 VA				
				Total Amps:	148 A	162 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	Total Conn. Load: 37191 VA
HVAC	3360 VA	100.00%	3360 VA	Total Est. Demand: 34875 VA
Heating	9000 VA	100.00%	9000 VA	Total Conn.: 155 A
Lighting - Dwelling Unit	140 VA	100.00%	140 VA	Total Est. Demand: 145 A
Other	386 VA	100.00%	386 VA	
Receptacle	4140 VA	100.00%	4140 VA	
Power	4500 VA	100.00%	4500 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

Branch Panel: MA-7

Location: Supply From: Mounting: Recessed Enclosure: NEMA 1

Volts: 120/240 Single Phases: 1 Wires: 3

A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	20 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 2250 VA	4500 VA 2250 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2500 VA 750 VA	2500 VA 750 VA	1	20 A	Washer	10	
11									12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 1200 VA	1	20 A	Garbage Disposal	16	
17	Dinning Receptacles	20 A	1	340 VA 815 VA	340 VA 1200 VA	1	20 A	Microwave	18	
19	Cooling	20 A	1	383 VA 688 VA	383 VA 688 VA	1	20 A	Refrigerator	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Lights	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Water Proof Receptacles	24	
25	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Bedroom 1 Receptacles	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	32	
33	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	34	
35	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	36	
				Total Load:	17735 VA	19537 VA				
				Total Amps:	148 A	163 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Cooling	100 VA	100.00%	100 VA	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	Total Conn. Load: 37271 VA
HVAC	3360 VA	100.00%	3360 VA	Total Est. Demand: 34775 VA
Heating	9000 VA	100.00%	9000 VA	Total Conn.: 155 A
Lighting - Dwelling Unit	140 VA	100.00%	140 VA	Total Est. Demand: 145 A
Other	386 VA	100.00%	386 VA	
Receptacle	4140 VA	100.00%	4140 VA	
Power	4500 VA	100.00%	4500 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

Branch Panel: MA-6

Location: Supply From: Mounting: Recessed Enclosure: NEMA 1

Volts: 120/240 Single Phases: 1 Wires: 3

A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	20 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 2250 VA	4500 VA 2250 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2500 VA 750 VA	2500 VA 750 VA	1	20 A	Washer	10	
11									12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	14	
15	Kitchen Counter Receptacle	20 A	1	360 VA 750 VA	360 VA 1200 VA	1	20 A	Garbage Disposal	16	
17	Dining Receptacle	20 A	1	340 VA 815 VA	340 VA 1200 VA	1	20 A	Microwave	18	
19	Bedroom	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Refrigerator	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Lights	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Water Proof Receptacle	24	
25	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Bedroom 1 Receptacles	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	32	
33	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	34	
35	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	36	
				Total Load:	17735 VA	19276 VA				
				Total Amps:	148 A	161 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	Total Conn. Load: 37011 VA
HVAC	3360 VA	100.00%	3360 VA	Total Est. Demand: 34695 VA
Heating	9000 VA	100.00%	9000 VA	Total Conn.: 154 A
Lighting - Dwelling Unit	140 VA	100.00%	140 VA	Total Est. Demand: 145 A
Other	386 VA	100.00%	386 VA	
Receptacle	3960 VA	100.00%	3960 VA	
Power	4500 VA	100.00%	4500 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

Branch Panel: MA-8

Location: Supply From: Mounting: Recessed Enclosure: NEMA 1

Volts: 120/240 Single Phases: 1 Wires: 3

A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	20 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 2250 VA	4500 VA 2250 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2500 VA 750 VA	2500 VA 750 VA	1	20 A	Washer	10	
11									12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 1200 VA	1	20 A	Garbage Disposal	16	
17	Dinning Receptacles	20 A	1	340 VA 815 VA	340 VA 1200 VA	1	20 A	Microwave	18	
19	Cooling	20 A	1	383 VA 688 VA	383 VA 688 VA	1	20 A	Refrigerator	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Lights	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Water Proof Receptacles	24	
25	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Bedroom 1 Receptacles	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	32	
33	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	34	
35	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	36	
				Total Load:	17735 VA	19357 VA				
				Total Amps:	148 A	161 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Cooling	100 VA	100.00%	100 VA	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	Total Conn. Load: 37091 VA
HVAC	3360 VA	100.00%	3360 VA	Total Est. Demand: 34775 VA
Heating	9000 VA	100.00%	9000 VA	Total Conn.: 155 A
Lighting - Dwelling Unit	140 VA	100.00%	140 VA	Total Est. Demand: 145 A
Other	386 VA	100.00%	386 VA	
Receptacle	3960 VA	100.00%	3960 VA	
Power	4500 VA	100.00%	4500 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

- DRAWING NOTES
- PLEASE REFER TO SHEET E000 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - PANEL SCHEDULES ARE REPRESENTATIVE OF THE TYPE OF UNIT. INDIVIDUAL UNITS MAY VARY SLIGHTLY.
 - PANEL DOORS SHALL BE FACTORY FINISH WHITE WITH FACTORY FINISH WHITE SCREWS AND WHITE PLASTIC LATCH.
 - PANEL DIRECTORY SHALL BE NEATLY PRINTED OR TYPED ON EACH PANEL DOOR.
 - THE "HOUSE" PANELS COVER UP TO THREE BUILDINGS AND MAY CONTAIN THE CIRCUITS FOR THE FOLLOWING: GFCI RECEPTACLES AT ALL HEAT PUMPS, FRONT PORCH AND BREEZEWAY LIGHTS, POWER FOR SECURITY CAMERAS, POWER FOR AUTO GATE OPENER, POWER FOR MAN GATE AND ACCESS CONTROL, SPRINKLER ROOM VALVES, SPRINKLER ROOM WALL HEATER, SPRINKLER ROOM LIGHT AND RECEPTACLES, SPRINKLER ROOM ACCESS CONTROL, IRRIGATION CONTROLLER, SIGN/MONUMENT LIGHT, ETC.
 - REFER TO SHEET E006 FOR UNIT PANEL CALCULATIONS.



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Issues and Revisions

Date	Issued / Revised
1	03/16/2020 50% CONSTRUCTION DOCUMENTS
2	05/18/2020 80% CONSTRUCTION DOCUMENTS
3	07/13/2020 PERMIT

- BUILDING ADDRESSES
- TYPE E-B 442, 444, 446, 448 BATHURST LANE
 - TYPE E-A 224, 226, 228, 230 SHAWNEE PLACE
 - TYPE H-A 373, 400 VANCE AVE
 - TYPE L-C 315, 364 FOOTE LANE
 - TYPE L-C 365, 431 VANCE AVE
 - TYPE L-A 315 BIRMEW PLACE
 - TYPE L-A 377 SHAWNEE PLACE
 - TYPE L-A 420, 355 FOOTE LANE
 - TYPE M-A 345 S DANNY THOMAS BLVD
 - 402, 428 FOOTE LANE

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LRK Project Number: 01.15100.02

Project Name:
South City CNI Phase 4
Memphis TN

Drawing Name:
ELECTRICAL PANEL SCHEDULES - BUILDING M-A

Drawn By: PTH
Checked By: RJH

MA-E301