

KEYNOTES

LEGEND



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Project No. 24174

## PANEL: P1A

|          |  |           |   |  |                    |
|----------|--|-----------|---|--|--------------------|
| VOLTAGE  | 480/277,3Ø,4W  | ENCLOSURE | <input checked="" type="checkbox"/> NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)<br><input type="checkbox"/> NEMA 3R<br><input type="checkbox"/> NEMA 4X 320 STAINLESS STEEL<br><input type="checkbox"/> LOCKABLE COVER | <input checked="" type="checkbox"/> FULLY RATED<br><input type="checkbox"/> SERIES RATED   | A.I.C. Rating: 22k |
| AMP      | <input type="checkbox"/> FACTORY MAIN CIRCUIT BREAKER<br><input type="checkbox"/> SHUNT TRIP MAIN CB<br><input checked="" type="checkbox"/> MAIN LUGS ONLY<br><input type="checkbox"/> UL LISTED FEED-THRU LUGS  | FEED      | <input type="checkbox"/> TOP<br><input checked="" type="checkbox"/> BOTTOM  | <input checked="" type="checkbox"/> FURNISH GROUND BAR KIT<br><input type="checkbox"/> FURNISH ADDITIONAL ISOLATED GROUND BAR KIT<br><input type="checkbox"/> SERVICE ENTRANCE LABEL |                    |
| NEUTRAL  | <input checked="" type="checkbox"/> 100%<br><input type="checkbox"/> 200%  | BRANCHES  | <input checked="" type="checkbox"/> BOLT-ON, PANELBOARD CONSTR<br><input type="checkbox"/> FUSIBLE SWITCHES, FURNISH ALL FUSES...<br><input type="checkbox"/> PLUG-ON, LOADCENTER CONSTR.                               |  |                    |
| MOUNTING | <input checked="" type="checkbox"/> SURFACE<br><input type="checkbox"/> RECESSED<br><input type="checkbox"/> FREE STANDING (FRONT ACCESS ONLY)<br><input type="checkbox"/> FREE STANDING (FRONT AND REAR ACCESS) |           |   |  |                    |

| 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"  | LIGHTING          |       | 1       | 54 VA   |   |         | 1977 VA |          |          | 1       |       | LIGHTING                   | 1/2"   | 12  | 12   | 20 A      | 2     |
| 3     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       | 848 VA  |   |         | 930 VA  |          |          | 1       |       | LIGHTING                   | 1/2"   | 12  | 12   | 20 A      | 4     |
| 5     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       | 313 VA  |   | 1969 VA |         | 0 VA     | 468 VA   | 1       |       | LIGHTING                   | 1/2"   | 12  | 12   | 20 A      | 6     |
| 7     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       |         |   | 0 VA    |         |          |          | 1       |       | SIGN LIGHTING              | 1/2"   | 12  | 12   | 20 A      | 8     |
| 9     | 20 A      | 12   | 12  | 1/2"  | POWER             |       | 1       | 0 VA    |   | 3191 VA |         | 3902 VA  | 3902 VA  | 3       |       | AHU-1-4                    | 1/2"   | 12  | 12   | 20 A      | 10    |
| 11    | 20 A      | 12   | 12  | 1/2"  | TERMINAL BOXES    |       | 1       | 0 VA    |   | 3902 VA |         |          |          |         |       |                            |        |     |      |           | 12    |
| 13    | 20 A      | 12   | 12  | 1/2"  | POWER             |       | 1       |         |   |         |         |          |          |         |       |                            |        |     |      |           | 14    |
| 15    | 20 A      | 12   | 12  | 1/2"  | AHU-1-3           |       | 3       | 3902 VA |   | 3902 VA |         | 14010... | 12916... | 3       |       | PANEL 1A (VIA TRANSFORMER) | 1-1/4" | 8   | 4    | 70 A      | 16    |
| 17    | 20 A      | 12   | 12  | 1/2"  |                   |       |         | 3902 VA |   | 0 VA    |         | 9753 VA  |          |         |       |                            |        |     |      |           | 18    |
| 19    |           |      |     |       |                   |       |         | 0 VA    |   | 0 VA    |         | 6667 VA  |          |         |       |                            |        |     |      |           | 20    |
| 21    | 60 A      | --   | --  | --    | SPD               |       | 3       |         |   | 0 VA    |         | 6667 VA  |          |         |       | IWH-1                      | 1"     | 8   | 8    | 30 A      | 22    |
| 23    |           |      |     |       |                   |       |         | 0 VA    |   | 0 VA    |         | 6667 VA  |          |         |       |                            |        |     |      |           | 24    |
| 25    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |         | 6667 VA  |          |         |       |                            |        |     |      |           | 26    |
| 27    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |         | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 28    |
| 29    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |         | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 30    |
| 31    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |         | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 32    |
| 33    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |         | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 34    |
| 35    | --        | --   | --  | --    | PROVISIONED SPACE |       | 1       |         |   | --      |         | --       | 0 VA     | 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 = 82.9...  
TOTAL AMPS = 100 A

| Load Classification  | Connected Load | Demand Factor | Estimated Demand | Panel Totals              |
|----------------------|----------------|---------------|------------------|---------------------------|
| LIGHTING             | 5838 VA        | 100.00%       | 5838 VA          |                           |
| Other                | 720 VA         | 100.00%       | 720 VA           | Total Conn. Load: 8940 VA |
| Power                | 7200 VA        | 100.00%       | 7200 VA          | Total Est. Load: 82.9 kVA |
| RECEP                | 23940 VA       | 70.89%        | 16970 VA         | Total Conn.: 108 A        |
| A/C SPLIT SYSTEM     | 21660 VA       | 100.00%       | 21660 VA         | Total Est. Amps: 100 A    |
| HEAT STRIP/ELEC HEAT | 23411 VA       | 100.00%       | 23411 VA         |                           |
| WATER HEATING        | 19 VA          | 100.00%       | 19 VA            |                           |
| EF                   | 2074 VA        | 100.00%       | 2074 VA          |                           |
| PUMP                 | 1441 VA        | 100.00%       | 1441 VA          |                           |
| TERMINAL BOX         | 3537 VA        | 100.00%       | 3537 VA          |                           |

Notes:

## PANEL: P1B

|          |  |           |   |  |                    |
|----------|--|-----------|---|--|--------------------|
| VOLTAGE  | 480/277,3Ø,4W  | ENCLOSURE | <input checked="" type="checkbox"/> NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)<br><input type="checkbox"/> NEMA 3R<br><input type="checkbox"/> NEMA 4X 320 STAINLESS STEEL<br><input type="checkbox"/> LOCKABLE COVER | <input checked="" type="checkbox"/> FULLY RATED<br><input type="checkbox"/> SERIES RATED   | A.I.C. Rating: 22k |
| AMP      | <input type="checkbox"/> FACTORY MAIN CIRCUIT BREAKER<br><input type="checkbox"/> SHUNT TRIP MAIN CB<br><input checked="" type="checkbox"/> MAIN LUGS ONLY<br><input type="checkbox"/> UL LISTED FEED-THRU LUGS  | FEED      | <input type="checkbox"/> TOP<br><input checked="" type="checkbox"/> BOTTOM  | <input checked="" type="checkbox"/> FURNISH GROUND BAR KIT<br><input type="checkbox"/> FURNISH ADDITIONAL ISOLATED GROUND BAR KIT<br><input type="checkbox"/> SERVICE ENTRANCE LABEL |                    |
| NEUTRAL  | <input checked="" type="checkbox"/> 100%<br><input type="checkbox"/> 200%  | BRANCHES  | <input checked="" type="checkbox"/> BOLT-ON, PANELBOARD CONSTR<br><input type="checkbox"/> FUSIBLE SWITCHES, FURNISH ALL FUSES...<br><input type="checkbox"/> PLUG-ON, LOADCENTER CONSTR.                               |  |                    |
| MOUNTING | <input checked="" type="checkbox"/> SURFACE<br><input type="checkbox"/> RECESSED<br><input type="checkbox"/> FREE STANDING (FRONT ACCESS ONLY)<br><input type="checkbox"/> FREE STANDING (FRONT AND REAR ACCESS) |           |   |  |                    |

| 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"  | LIGHTING          |       | 1       | 991 VA  |   |         | 365 VA |          |          | 1       |       | LIGHTING                   | 1/2"   | 12  | 12   | 20 A      | 2     |
| 3     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       | 98 VA   |   |         | 879 VA |          |          | 1       |       | LIGHTING                   | 1/2"   | 12  | 12   | 20 A      | 4     |
| 5     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       | 676 VA  |   | 1141 VA |        | 3258 VA  | 0 VA     | 1       |       | TERMINAL BOXES             | 1/2"   | 12  | 12   | 20 A      | 6     |
| 7     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       |         |   | 1100 VA |        | 3902 VA  | 3902 VA  | 3       |       | TERMINAL BOXES             | 1/2"   | 12  | 12   | 20 A      | 8     |
| 9     | 20 A      | 12   | 12  | 1/2"  | LIGHTING          |       | 1       |         |   | 0 VA    |        |          |          |         |       |                            |        |     |      |           | 10    |
| 11    | 20 A      | 12   | 12  | 1/2"  | POWER             |       | 1       | 3902 VA |   | 3902 VA |        | 29845... | 3902 VA  | 3       |       | AHU-1-2                    | 1/2"   | 12  | 12   | 20 A      | 12    |
| 13    | 20 A      | 12   | 12  | 1/2"  |                   |       |         | 3902 VA |   | 3902 VA |        | 34353 VA | 35153... | 3       |       | PANEL 1B (VIA TRANSFORMER) | 1-1/4" | 8   | 4    | 70 A      | 14    |
| 15    | 20 A      | 12   | 12  | 1/2"  | AHU-1-1           |       | 3       |         |   | 3902 VA |        |          |          |         |       |                            |        |     |      |           | 16    |
| 17    |           |      |     |       |                   |       |         | 0 VA    |   | 0 VA    |        | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 18    |
| 19    | 60 A      | --   | --  | --    | SPD               |       | 3       |         |   | 0 VA    |        | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 20    |
| 21    |           |      |     |       |                   |       |         | 0 VA    |   | 0 VA    |        | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 22    |
| 23    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |        | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 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    | 20 A      | --   | --  | --    | SPARE             |       | 1       |         |   | 0 VA    |        | 0 VA     |          | 1       | --    | SPARE                      | --     | --  | --   | 20 A      | 30    |
| 31    | --        | --   | --  | --    | PROVISIONED SPACE |       | 1       |         |   | --      |        | --       | --       | 1       | --    | PROVISIONED SPACE          | --     | --  | --   | 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 = 127.4...  
TOTAL AMPS = 153 A

| Load Classification  | Connected Load | Demand Factor | Estimated Demand | Panel Totals                |
|----------------------|----------------|---------------|------------------|-----------------------------|
| LIGHTING             | 5250 VA        | 100.00%       | 5250 VA          |                             |
| Other                | 0 VA           | 0.00%         | 0 VA             | Total Conn. Load: 131270 VA |
| Power                | 81372 VA       | 100.00%       | 81372 VA         | Total Est. Load: 127.4 kVA  |
| RECEP                | 17800 VA       | 78.09%        | 13900 VA         | Total Conn.: 158 A          |
| A/C SPLIT SYSTEM     | 1660 VA        | 100.00%       | 1660 VA          | Total Est. Amps: 153 A      |
| HEAT STRIP/ELEC HEAT | 23411 VA       | 100.00%       | 23411 VA         |                             |
| TERMINAL BOX         | 1777 VA        | 100.00%       | 1777 VA          |                             |

Notes:

## PANEL: P2A

|          |  |           |   |  |                    |
|----------|--|-----------|---|--|--------------------|
| VOLTAGE  | 480/277,3Ø,4W  | ENCLOSURE | <input checked="" type="checkbox"/> NEMA 1 (TOOL-LESS DOOR-IN-DOOR CONSTRUCTION)<br><input type="checkbox"/> NEMA 3R<br><input type="checkbox"/> NEMA 4X 320 STAINLESS STEEL<br><input type="checkbox"/> LOCKABLE COVER | <input checked="" type="checkbox"/> FULLY RATED<br><input type="checkbox"/> SERIES RATED   | A.I.C. Rating: 22k |
| AMP      | <input type="checkbox"/> FACTORY MAIN CIRCUIT BREAKER<br><input type="checkbox"/> SHUNT TRIP MAIN CB<br><input checked="" type="checkbox"/> MAIN LUGS ONLY<br><input type="checkbox"/> UL LISTED FEED-THRU LUGS  | FEED      | <input type="checkbox"/> TOP<br><input checked="" type="checkbox"/> BOTTOM  | <input checked="" type="checkbox"/> FURNISH GROUND BAR KIT<br><input type="checkbox"/> FURNISH ADDITIONAL ISOLATED GROUND BAR KIT<br><input type="checkbox"/> SERVICE ENTRANCE LABEL |                    |
| NEUTRAL  | <input checked="" type="checkbox"/> 100%<br><input type="checkbox"/> 200%  | BRANCHES  | <input checked="" type="checkbox"/> BOLT-ON, PANELBOARD CONSTR<br><input type="checkbox"/> FUSIBLE SWITCHES, FURNISH ALL FUSES...<br><input type="checkbox"/> PLUG-ON, LOADCENTER CONSTR.                               |  |                    |
| MOUNTING | <input checked="" type="checkbox"/> SURFACE<br><input type="checkbox"/> RECESSED<br><input type="checkbox"/> FREE STANDING (FRONT ACCESS ONLY)<br><input type="checkbox"/> FREE STANDING (FRONT AND REAR ACCESS) |           |   |  |                    |

| 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"  | LIGHTING          |       | 1       | 3309 VA |         |         | 1934 VA |          |          | 1       |       | LIGHTING ROOM 225, 226, 227 | 1/2"   | 12  | 12   | 20 A      | 2     |    |
| 3                  | 20 A      | 12   | 12  | 1/2"  | TERMINAL BOXES    |       | 1       |         | 2393 VA |         |         | 0 VA     |          | 1       |       | POWER MECHANICAL 238        | 1/2"   | 12  | 12   | 20 A      | 4     |    |
| 5                  | 20 A      | 12   | 12  | 1/2"  | TERMINAL BOXES    |       | 1       | 6695 VA |         | 2393 VA |         | 18036 VA | 3191 VA  | 1       |       | TERMINAL BOXES              | 1/2"   | 12  | 12   | 20 A      | 6     |    |
| 7                  | 40 A      | 10   | 10  | 3/4"  | AHU-2-3           |       | 3       | 6695 VA |         | 6695 VA |         | 13045... | 11953... | 3       |       | PANEL 2A (VIA TRANSFORMER)  | 1-1/4" | 8   | 4    | 70 A      | 8     |    |
| 9                  |           |      |     |       | SPARE             | --    | 1       | 0 VA    |         | 6695 VA |         | 6695 VA  | 0 VA     | 1       |       |                             |        |     |      |           | 10    |    |
| 13                 | 20 A      | --   | --  | --    | SPARE             | --    | 1       |         | 0 VA    |         | 0 VA    |          | 0 VA     | 3       | --    | SPD                         | --     | --  | --   | 60 A      | 14    |    |
| 15                 | 20 A      | --   | --  | --    | SPARE             | --    | 1       |         |         | 0 VA    |         | 0 VA     |          | 0 VA    |       |                             |        |     |      |           | 16    |    |
| 17                 | 20 A      | --   | --  | --    | SPARE             | --    | 1       |         |         | 0 VA    |         | 0 VA     |          | 0 VA    | 1     | --                          | SPARE  | --  | --   | --        | 20 A  | 18 |
| 19                 | 20 A      | --   | --  | --    | SPARE             | --    | 1       |         |         | 0 VA    |         | 0 VA     |          | 0 VA    | 1     | --                          | SPARE  | --  | --   | --        | 20 A  | 20 |
| 21                 | --        | --   | --  | --    | PROVISIONED SPACE | --    | 1       |         | --      | --      | --      | --       | 0 VA     | 1       | --    | SPARE                       | --     | --  | --   | 20 A      | 22    |    |
| 23                 | --        | --   | --  | --    | PROVISIONED SPACE | --    | 1       |         | --      | --      | --      | --       | 0 VA     | 1       | --    | SPARE                       | --     | --  | --   | 20 A      | 24    |    |
| 25                 | --        | --   | --  | --    | PROVISIONED SPACE | --    | 1       |         | --      | --      | --      | --       | 0 VA     | 1       | --    | SPARE                       | --     | --  | --   | 20 A      | 26    |    |
| 27                 | --        | --   | --  | --    | PROVISIONED SPACE | --    | 1       |         | --      | --      | --      | --       | --       | 1       | --    | PROVISIONED SPACE           | --     | --  | --   | 20 A      | 28    |    |
| 29                 | --        | --   | --  | --    | PROVISIONED SPACE | --    | 1       |         | --      | --      | --      | --       | --       | 1       | --    | PROVISIONED SPACE           | --     | --  | --   | 20 A      | 30    |    |
| 31                 | --        | --   | --  | --    | PROVISIONED SPACE | --    | 1       |         | --      | --      | --      | --       | --       | 1       | --    | PROVISIONED SPACE           | --     | --  | --   | 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    |    |