

| PANEL '145-EQ1-T1'                     |      |      |    | VOLTS: 120/208V,3PH,4W |      |       |        | ENCLOSURE: NEMA 1 |           |                         |                         | 100 A |      |          |      |
|----------------------------------------|------|------|----|------------------------|------|-------|--------|-------------------|-----------|-------------------------|-------------------------|-------|------|----------|------|
| MFR/MODEL: SQUARE 'D' TYPE NQ          |      |      |    | VOLT-AMPS              |      |       |        | MTG: SURFACE      |           |                         |                         |       |      |          |      |
| NOTE                                   | CIRC | POLE |    | SERVICE                | TYPE | A     | B      | C                 | TYPE      | SERVICE                 | AMPS                    | POLE  | CIRC | NOTE     |      |
|                                        | 1    | 3    | 30 | 2P-122B-1B             | SPEC | 2,333 | 720    |                   | RECP      | TELECOM RM 122B E. RECP | 20                      | 1     | 2    |          |      |
|                                        | 3    | 3    | 30 | AA                     | SPEC |       | 2,333  | 720               |           | RECP                    | TELECOM RM 122B W. RECP | 20    | 1    | 4        |      |
|                                        | 5    | 3    | 30 | AA                     | SPEC |       |        | 2,333             | 180       | RECP                    | 145-RECP-1              | 20    | 1    | 6        |      |
|                                        | 7    | 2    | 50 | 145-IU-1               | MOTR | 3,952 | 208    |                   | LTG       | RM 122B                 | 20                      | 1     | 8    |          |      |
|                                        | 9    | 2    | 50 | AA                     | MOTR |       | 3,952  |                   |           | SPARE                   | 20                      | 1     | 10   |          |      |
|                                        | 11   | 2    | 45 | 145-CU-1               | MOTR |       |        | 2,496             |           | SPARE                   | 20                      | 1     | 12   |          |      |
|                                        | 13   | 2    | 45 | AA                     | MOTR | 2,496 |        |                   |           | SPARE                   | 20                      | 1     | 14   |          |      |
|                                        | 15   | 2    | 60 | 145-IU-4               | MOTR |       | 4,472  |                   |           | SPACE                   | -                       | 1     | 16   |          |      |
|                                        | 17   | 2    | 60 | AA                     | MOTR |       |        | 4,472             |           | SPACE                   | -                       | 1     | 18   |          |      |
|                                        | 19   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 20   |          |      |
|                                        | 21   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 22   |          |      |
|                                        | 23   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 24   |          |      |
|                                        | 25   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 26   |          |      |
|                                        | 27   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 28   |          |      |
|                                        | 29   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 30   |          |      |
|                                        | 31   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 32   |          |      |
|                                        | 33   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 34   |          |      |
|                                        | 35   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 36   |          |      |
|                                        | 37   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 38   |          |      |
|                                        | 39   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 40   |          |      |
|                                        | 41   | 1    | -  | SPACE                  |      |       |        |                   |           | SPACE                   | -                       | 1     | 42   |          |      |
| TOTAL V-A                              |      |      |    |                        |      | 9,709 | 11,477 | 9,481             | 30,668 VA |                         |                         |       |      |          |      |
| TOTAL AMPS                             |      |      |    |                        |      | 81    | 96     | 79                | 85 A      |                         |                         |       |      |          |      |
| A.I.C. RATING: 22,000                  |      |      |    |                        |      |       |        |                   |           |                         |                         |       |      |          |      |
| TOTAL                                  |      |      |    |                        |      |       |        |                   |           |                         |                         |       |      |          |      |
| CONNECTED LOAD IN KVA (THIS PANEL):    |      |      |    |                        |      | LTG   | RECP   | MOTR              | LG MT     | MISC                    | KIT                     | HEAT  | SPEC | TOTAL    | AMPS |
|                                        |      |      |    |                        |      | 0.21  | 1.62   | 21.84             | 2.24      | 0.00                    | 0.00                    | 0.00  | 7.00 | 30.7 KVA | 85 A |
| CONNECTED LOAD IN KVA (BRANCH PANELS): |      |      |    |                        |      |       |        |                   |           |                         |                         |       |      |          |      |
|                                        |      |      |    |                        |      | 0.21  | 1.62   | 21.84             | 2.24      | 0.00                    | 0.00                    | 0.00  | 7.00 | 0.0 KVA  | 0 A  |
| TOTAL CONNECTED LOAD IN KVA:           |      |      |    |                        |      |       |        |                   |           |                         |                         |       |      |          |      |
| DEMAND LOAD IN KVA:                    |      |      |    |                        |      | 0.26  | 1.62   | 21.84             | 2.24      | 0.00                    | 0.00                    | 0.00  | 7.00 | 33.0 KVA | 91 A |

PANEL NOTES:

PANEL OPTIONS:  
MAIN LUGS ONLY

| PANEL '113-UPB-T1'                     |      |      |           | MFR/MODEL: SQUARE 'D' TYPE NQ |       |                                  |       | VOLTS: 120/208V,3PH,4W |          |         |      | ENCLOSURE: NEMA 1 |      |         |      | 100 A |  |  |  |
|----------------------------------------|------|------|-----------|-------------------------------|-------|----------------------------------|-------|------------------------|----------|---------|------|-------------------|------|---------|------|-------|--|--|--|
|                                        |      |      |           | VOLT-AMPS                     |       |                                  |       | MTG: SURFACE           |          |         |      |                   |      |         |      |       |  |  |  |
| NOTE                                   | CIRC | POLE | AMPS      | SERVICE                       | TYPE  | A                                | B     | C                      | TYPE     | SERVICE | AMPS | POLE              | CIRC | NOTE    |      |       |  |  |  |
| 1                                      | 3    | 20   | RK-801-1A | SPEC                          | 1,167 |                                  |       |                        |          | SPARE   | 20   | 1                 | 2    |         |      |       |  |  |  |
| 3                                      | 3    | 20   | AM        | SPEC                          |       | 1,167                            |       |                        |          | SPARE   | 20   | 1                 | 4    |         |      |       |  |  |  |
| 5                                      | 3    | 20   | AM        | SPEC                          |       |                                  |       | 1,167                  |          | SPARE   | 20   | 1                 | 6    |         |      |       |  |  |  |
| 7                                      | 1    | 20   | SPARE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 8    |         |      |       |  |  |  |
| 9                                      | 1    | 20   | SPARE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 10   |         |      |       |  |  |  |
| 11                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 12   |         |      |       |  |  |  |
| 13                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 14   |         |      |       |  |  |  |
| 15                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 16   |         |      |       |  |  |  |
| 17                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 18   |         |      |       |  |  |  |
| 19                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 20   |         |      |       |  |  |  |
| 21                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 22   |         |      |       |  |  |  |
| 23                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 24   |         |      |       |  |  |  |
| 25                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 26   |         |      |       |  |  |  |
| 27                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 28   |         |      |       |  |  |  |
| 29                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 30   |         |      |       |  |  |  |
| 31                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 32   |         |      |       |  |  |  |
| 33                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 34   |         |      |       |  |  |  |
| 35                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 36   |         |      |       |  |  |  |
| 37                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 38   |         |      |       |  |  |  |
| 39                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 40   |         |      |       |  |  |  |
| 41                                     | 1    | -    | SPACE     |                               |       |                                  |       |                        |          | SPACE   | -    | 1                 | 42   |         |      |       |  |  |  |
| TOTAL V-A                              |      |      |           |                               |       | 1,167                            | 1,167 | 1,167                  | 3,500 VA |         |      |                   |      |         |      |       |  |  |  |
| TOTAL AMPS                             |      |      |           |                               |       | 10                               | 10    | 10                     | 10 A     |         |      |                   |      |         |      |       |  |  |  |
| A.I.C. RATING: 22,000                  |      |      |           |                               |       |                                  |       |                        |          |         |      |                   |      |         |      |       |  |  |  |
| CONNECTED LOAD IN KVA (THIS PANEL):    |      |      |           |                               |       | MISC                             | RECP  | MOTR                   | LG.MT    | MISC    | KIT  | HEAT              | SPEC | TOTAL   | AMPS |       |  |  |  |
| CONNECTED LOAD IN KVA (BRANCH PANELS): |      |      |           |                               |       | 0.00                             | 0.00  | 0.00                   | 0.00     | 0.00    | 0.00 | 0.00              | 3.50 | 3.5 KVA | 10 A |       |  |  |  |
| TOTAL CONNECTED LOAD IN KVA:           |      |      |           |                               |       | 0.00                             | 0.00  | 0.00                   | 0.00     | 0.00    | 0.00 | 0.00              | 3.50 | 0.0 KVA | 0 A  |       |  |  |  |
| DEMAND LOAD IN KVA:                    |      |      |           |                               |       | 0.00                             | 0.00  | 0.00                   | 0.00     | 0.00    | 0.00 | 0.00              | 3.50 | 3.5 KVA | 10 A |       |  |  |  |
| PANEL NOTES:                           |      |      |           |                               |       | PANEL OPTIONS:<br>MAIN LUGS ONLY |       |                        |          |         |      |                   |      |         |      |       |  |  |  |

|                 |
|-----------------|
| PROJECT NUMBER  |
| 568-21-701      |
| BUILDING NUMBER |
| DRAWING NUMBER  |
| EK-009          |



PANEL '148-EQ1-T1'

MFR/MODEL: SQUARE 'D' TYPE NQ

VOLTS: 120/208V 3PH 4W

ENCLOSURE: NEMA 1

225 A

| VOLT-AMPS                              |      |      |    |             |      |        |      |        |       | MTG: SURFACE |      |           |                          |          |   |      |      |      |      |
|----------------------------------------|------|------|----|-------------|------|--------|------|--------|-------|--------------|------|-----------|--------------------------|----------|---|------|------|------|------|
| NOTE                                   | CIRC | POLE |    | SERVICE     | TYPE | A      |      | B      |       | C            |      | TYPE      | SERVICE                  |          |   | AMPS | POLE | CIRC | NOTE |
| 1                                      | 3    | 30   |    | ZP-A114-1B  | SPEC | 2,333  | 720  |        |       |              |      | RECP      | TELECOM RM A114 E. RECP  | 20       | 1 | 2    |      |      |      |
| 3                                      | 3    | 30   | AA |             | SPEC |        |      | 2,333  | 720   |              |      | RECP      | TELECOM RM A114 W. RECP  | 20       | 1 | 4    |      |      |      |
| 5                                      | 3    | 30   | AA |             | SPEC |        |      |        |       | 2,333        | 720  | RECP      | TELECOM RM C106A E. RECP | 20       | 1 | 6    |      |      |      |
| 7                                      | 30   |      |    | ZP-C106A-1B | SPEC | 2,333  | 720  |        |       |              |      | RECP      | TELECOM RM C106A W. RECP | 20       | 1 | 8    |      |      |      |
| 9                                      | 3    | 30   | AA |             | SPEC |        |      | 2,333  | 720   |              |      | RECP      | TELECOM RM F108 E. RECP  | 20       | 1 | 10   |      |      |      |
| 11                                     | 3    | 30   | AA |             | SPEC |        |      |        |       | 2,333        | 720  | RECP      | TELECOM RM F108 W. RECP  | 20       | 1 | 12   |      |      |      |
| 13                                     | 3    | 30   | AA | ZP-F108-1B  | SPEC | 2,333  | 180  |        |       |              |      | RECP      | 148-RECP-1               | 20       | 1 | 14   |      |      |      |
| 15                                     | 3    | 30   | AA |             | SPEC |        |      | 2,333  | 180   |              |      | RECP      | 148-RECP-2               | 20       | 1 | 16   |      |      |      |
| 17                                     | 3    | 30   | AA |             | SPEC |        |      |        |       | 2,333        | 104  | LTG       | TELECOM RM A114A         | 20       | 1 | 18   |      |      |      |
| 19                                     | 2    | 50   | AA | 148-IU-1    | MOTR | 3,952  | 104  |        |       |              |      | LTG       | TELECOM RM C106A         | 20       | 1 | 20   |      |      |      |
| 21                                     | 2    | 50   | AA |             | MOTR |        |      | 3,952  | 104   |              |      | LTG       | TELECOM RM F108          | 20       | 1 | 22   |      |      |      |
| 23                                     | 2    | 50   | AA | 148-IU-2    | MOTR | 3,952  |      |        |       | 3,952        | 180  | RECP      | 148-RECP-3               | 20       | 1 | 24   |      |      |      |
| 25                                     | 2    | 50   | AA |             | MOTR |        |      |        |       |              |      | SPARE     |                          | 20       | 1 | 26   |      |      |      |
| 27                                     | 2    | 50   | AA | 148-IU-3    | MOTR |        |      | 3,952  |       |              |      | SPARE     |                          | 20       | 1 | 28   |      |      |      |
| 29                                     | 2    | 50   | AA |             | MOTR |        |      |        |       | 3,952        |      | SPACE     |                          | -        | 1 | 30   |      |      |      |
| 31                                     | 2    | 45   | AA | 148-CU-1    | MOTR | 2,496  |      |        |       |              |      | SPACE     |                          | -        | 1 | 32   |      |      |      |
| 33                                     | 2    | 45   | AA |             | MOTR |        |      | 2,496  |       |              |      | SPACE     |                          | -        | 1 | 34   |      |      |      |
| 35                                     | 2    | 45   | AA | 148-CU-2    | MOTR |        |      |        |       | 2,496        |      | SPACE     |                          | -        | 1 | 36   |      |      |      |
| 37                                     | 2    | 45   | AA |             | MOTR | 2,496  |      |        |       |              |      | SPACE     |                          | -        | 1 | 38   |      |      |      |
| 39                                     | 2    | 45   | AA | 148-CU-3    | MOTR |        |      | 2,496  |       |              |      | SPACE     |                          | -        | 1 | 40   |      |      |      |
| 41                                     | 2    | 45   | AA |             | MOTR |        |      |        |       | 2,496        |      | SPACE     |                          | -        | 1 | 42   |      |      |      |
| TOTAL V-A                              |      |      |    |             |      | 21,620 |      | 21,620 |       | 21,620       |      | 64,860 VA |                          |          |   |      |      |      |      |
| TOTAL AMPS                             |      |      |    |             |      | 180    |      | 180    |       | 180          |      | 180 A     |                          |          |   |      |      |      |      |
| A.I.C. RATING: 22,000                  |      |      |    |             |      |        |      |        |       |              |      |           |                          |          |   |      |      |      |      |
|                                        |      |      |    |             |      | LTG    | RECP | MOTR   | LG.MT | MISC         | KIT  | HEAT      | SPEC                     | TOTAL    |   | AMPS |      |      |      |
| CONNECTED LOAD IN KVA (THIS PANEL):    |      |      |    |             |      | 0.31   | 4.86 | 38.69  | 1.98  | 0.00         | 0.00 | 0.00      | 21.00                    | 64.9 KVA |   | 180  | A    |      |      |
| CONNECTED LOAD IN KVA (BRANCH PANELS): |      |      |    |             |      |        |      |        |       |              |      |           |                          | 0.0 KVA  |   | 0    | A    |      |      |
| TOTAL CONNECTED LOAD IN KVA:           |      |      |    |             |      | 0.31   | 4.86 | 38.69  | 1.98  | 0.00         | 0.00 | 0.00      | 21.00                    | 64.9 KVA |   | 180  | A    |      |      |
| DEMAND LOAD IN KVA:                    |      |      |    |             |      | 0.39   | 4.86 | 38.69  | 1.98  | 0.00         | 0.00 | 0.00      | 21.00                    | 66.9 KVA |   | 186  | A    |      |      |

PANEL NOTES:

PANEL OPTIONS:  
MAIN CIRCUIT BREAKER (SEE ONE-LINE FOR SIZE)

| RELOCATED PANEL 'M'                                                                                                                                                                                                                                              |      |      |            |         | VOLTS: 120/208V,3PH,4W |       |       |       |       | ENCLOSURE: NEMA 1 |      |      |           |      | 400 A          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|---------|------------------------|-------|-------|-------|-------|-------------------|------|------|-----------|------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MFR/MODEL: SIEMENS I-T-E SERIES 8                                                                                                                                                                                                                                |      |      |            |         | VOLTS-AMPS             |       |       |       |       | MTG: SURFACE      |      |      |           |      |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NOTE                                                                                                                                                                                                                                                             | CIRC | POLE | AMPS       | SERVICE | TYPE                   | A     | B     | C     | TYPE  | SERVICE           | AMPS | POLE | CIRC      | NOTE |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 1                                                                                                                                                                                                                                                              | 3    | *    | 14S-CRAC-1 | MOTR    | 14291                  | 14291 |       |       | MOTR  | 14S-CRAC-2        | *    | *    | 3         | 2    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 3                                                                                                                                                                                                                                                              | 3    | *    | AAA        | MOTR    |                        |       | 14291 | 14291 | MOTR  | AAA               | *    | *    | 3         | 4    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 5                                                                                                                                                                                                                                                              | 3    | *    | AAA        | MOTR    |                        |       |       |       | MOTR  | AAA               | *    | *    | 3         | 6    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 7                                                                                                                                                                                                                                                              | 3    | 25   | DC-1       | MISC    | 2736                   | 2736  |       | 14291 | 14291 | MISC              | DC-2 |      | 25        | 3    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 9                                                                                                                                                                                                                                                              | 3    | 25   | AAA        | MISC    |                        |       | 2736  | 2736  | MISC  | AAA               |      |      | 25        | 3    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 11                                                                                                                                                                                                                                                             | 3    | 25   | AAA        | MISC    |                        |       |       |       | MISC  | AAA               |      |      | 25        | 3    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 13                                                                                                                                                                                                                                                             | 3    | 15   | 14S-PB-1   | MOTR    | 624                    |       |       |       |       | SPACE             |      |      | 15        | 14   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 15                                                                                                                                                                                                                                                             | 3    | 15   | AAA        | MOTR    |                        |       | 624   |       |       | SPACE             |      |      | 15        | 16   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 17                                                                                                                                                                                                                                                             | 3    | 15   | AAA        | MOTR    |                        |       |       | 624   |       | CONSOLE LIGHT     |      |      | 20        | 1    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 19                                                                                                                                                                                                                                                             | 3    | 15   | 14S-PB-2   | MOTR    | 624                    |       |       |       |       | PBX ROOM LIGHTS   |      |      | 20        | 1    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 21                                                                                                                                                                                                                                                             | 3    | 15   | AAA        | MOTR    |                        |       | 624   |       |       | PBX ROOM LIGHTS   |      |      | 20        | 1    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b 23                                                                                                                                                                                                                                                             | 3    | 15   | AAA        | MOTR    |                        |       |       | 624   |       | AC UNIT 143       |      |      | 20        | 1    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 26   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 28   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 30   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 32   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 34   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 36   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 37                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 38   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 40   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41                                                                                                                                                                                                                                                               | 1    | -    | SPACE      |         |                        |       |       |       |       | SPACE             |      |      | 1         | 42   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL V-A                                                                                                                                                                                                                                                        |      |      |            |         |                        | 35301 |       | 35301 |       | 35301             |      |      | 105,903   | VA   |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL AMPS                                                                                                                                                                                                                                                       |      |      |            |         |                        | 294   |       | 294   |       | 294               |      |      | 294       | A    |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONNECTED LOAD IN KVA (THIS PANEL):                                                                                                                                                                                                                              |      |      |            |         | 0.00                   | 0.00  | 89.49 | 10.72 | 16.42 | 0.00              | 0.00 | 0.00 | 105.9 KVA | 294  | A              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CONNECTED LOAD IN KVA (BRANCH PANELS):                                                                                                                                                                                                                           |      |      |            |         |                        |       |       |       |       |                   |      |      |           |      |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL CONNECTED LOAD IN KVA:                                                                                                                                                                                                                                     |      |      |            |         | 0.00                   | 0.00  | 89.49 | 10.72 | 16.42 | 0.00              | 0.00 | 0.00 | 105.9 KVA | 294  | A              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEMAND LOAD IN KVA:                                                                                                                                                                                                                                              |      |      |            |         | 0.00                   | 0.00  | 89.49 | 10.72 | 16.42 | 0.00              | 0.00 | 0.00 | 116.6 KVA | 324  | A              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PANEL NOTES:                                                                                                                                                                                                                                                     |      |      |            |         |                        |       |       |       |       |                   |      |      |           |      | PANEL OPTIONS: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EXISTING LOAD TO REMAIN                                                                                                                                                                                                                                          |      |      |            |         |                        |       |       |       |       |                   |      |      |           |      | MAIN LUGS ONLY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INSTALL NEW CIRCUIT BREAKER IN SPACE AVAILABLE IN THE PANEL. THE NEW CIRCUIT BREAKER SHALL BE COMPATIBLE WITH AND LISTED FOR USE IN THE EXISTING PANEL AND SHALL HAVE A MINIMUM SHORT CIRCUIT AIC RATING TO MATCH THE LOWEST RATED EXISTING DEVICE IN THE PANEL. |      |      |            |         |                        |       |       |       |       |                   |      |      |           |      |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * 150A, 3-POLE BREAKER                                                                                                                                                                                                                                           |      |      |            |         |                        |       |       |       |       |                   |      |      |           |      |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**EK-011**

[illegible]

|                 |
|-----------------|
| PROJECT NUMBER  |
| 568-21-701      |
| BUILDING NUMBER |
|                 |
| DRAWING NUMBER  |
| EK-012          |

PANEL '296-T1'

MFR/MODEL: SQUARE 'D' TYPE NQ

VOLTS: 120/208V.3PH.4W

ENCLOSURE: NEMA 1

100 A

|                                        |      |      |           |         |       |       |       |       |           | VOLT-AMPS                        |      |      | MTG: SURFACE |          |      |  |  |  |
|----------------------------------------|------|------|-----------|---------|-------|-------|-------|-------|-----------|----------------------------------|------|------|--------------|----------|------|--|--|--|
| NOTE                                   | CIRC | POLE |           | SERVICE | TYPE  | A     | B     | C     | TYPE      | SERVICE                          | AMPS | POLE | CIRC         | NOTE     |      |  |  |  |
| 1                                      | 2    | 50   | T296-U-1  | MOTR    | 3,952 | 2,496 |       |       | MOTR      | T296-CU-1                        | 45   | 2    | 2            |          |      |  |  |  |
| 2                                      | 50   | AA   |           | MOTR    |       |       | 3,952 | 2,496 |           | AA                               | 45   | 2    | 4            |          |      |  |  |  |
| 3                                      | 20   | 20   | RK-104-1A | SPEC    |       |       |       | 1,167 | 180       |                                  | 20   | 1    | 6            |          |      |  |  |  |
| 7                                      | 3    | 20   | AA        | SPEC    | 1,167 |       |       |       |           |                                  | 20   | 1    | 8            |          |      |  |  |  |
| 9                                      | 3    | 20   | AA        | SPEC    |       | 1,167 |       |       |           |                                  | 20   | 1    | 10           |          |      |  |  |  |
| 11                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 12           |          |      |  |  |  |
| 13                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 14           |          |      |  |  |  |
| 15                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 16           |          |      |  |  |  |
| 17                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 18           |          |      |  |  |  |
| 19                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 20           |          |      |  |  |  |
| 21                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 22           |          |      |  |  |  |
| 23                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 24           |          |      |  |  |  |
| 25                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 26           |          |      |  |  |  |
| 27                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 28           |          |      |  |  |  |
| 29                                     | 1    | -    | SPACE     |         |       |       |       |       |           |                                  | -    | 1    | 30           |          |      |  |  |  |
| TOTAL V-A                              |      |      |           |         |       | 7,615 | 7,615 | 1,347 | 16,576 VA |                                  |      |      |              |          |      |  |  |  |
| TOTAL AMPS                             |      |      |           |         |       | 63    | 63    | 11    | 46 A      |                                  |      |      |              |          |      |  |  |  |
| A.I.C. RATING: 22,000                  |      |      |           |         |       |       |       |       |           |                                  |      |      |              |          |      |  |  |  |
| CONNECTED LOAD IN KVA (THIS PANEL):    |      |      |           |         |       | LTG   | RECP  | MOTR  | LG.MT     | MISC                             | KIT  | HEAT | SPEC         | TOTAL    | AMPS |  |  |  |
| CONNECTED LOAD IN KVA (BRANCH PANELS): |      |      |           |         |       | 0.00  | 0.00  | 12.90 | 1.98      | 0.00                             | 0.00 | 0.00 | 3.50         | 16.4 KVA | 46 A |  |  |  |
| TOTAL CONNECTED LOAD IN KVA:           |      |      |           |         |       | 0.00  | 0.00  | 12.90 | 1.98      | 0.00                             | 0.00 | 0.00 | 3.50         | 0.0 KVA  | 0 A  |  |  |  |
| DEMAND LOAD IN KVA:                    |      |      |           |         |       | 0.00  | 0.00  | 12.90 | 1.98      | 0.00                             | 0.00 | 0.00 | 3.50         | 16.4 KVA | 46 A |  |  |  |
| DEMAND LOAD IN KVA:                    |      |      |           |         |       | 0.00  | 0.00  | 12.90 | 1.98      | 0.00                             | 0.00 | 0.00 | 3.50         | 18.4 KVA | 51 A |  |  |  |
| PANEL NOTES:                           |      |      |           |         |       |       |       |       |           | PANEL OPTIONS:<br>MAIN LUGS ONLY |      |      |              |          |      |  |  |  |

|                 |
|-----------------|
| PROJECT NUMBER  |
| 568-21-701      |
| BUILDING NUMBER |
|                 |
| DRAWING NUMBER  |
| EK-013          |

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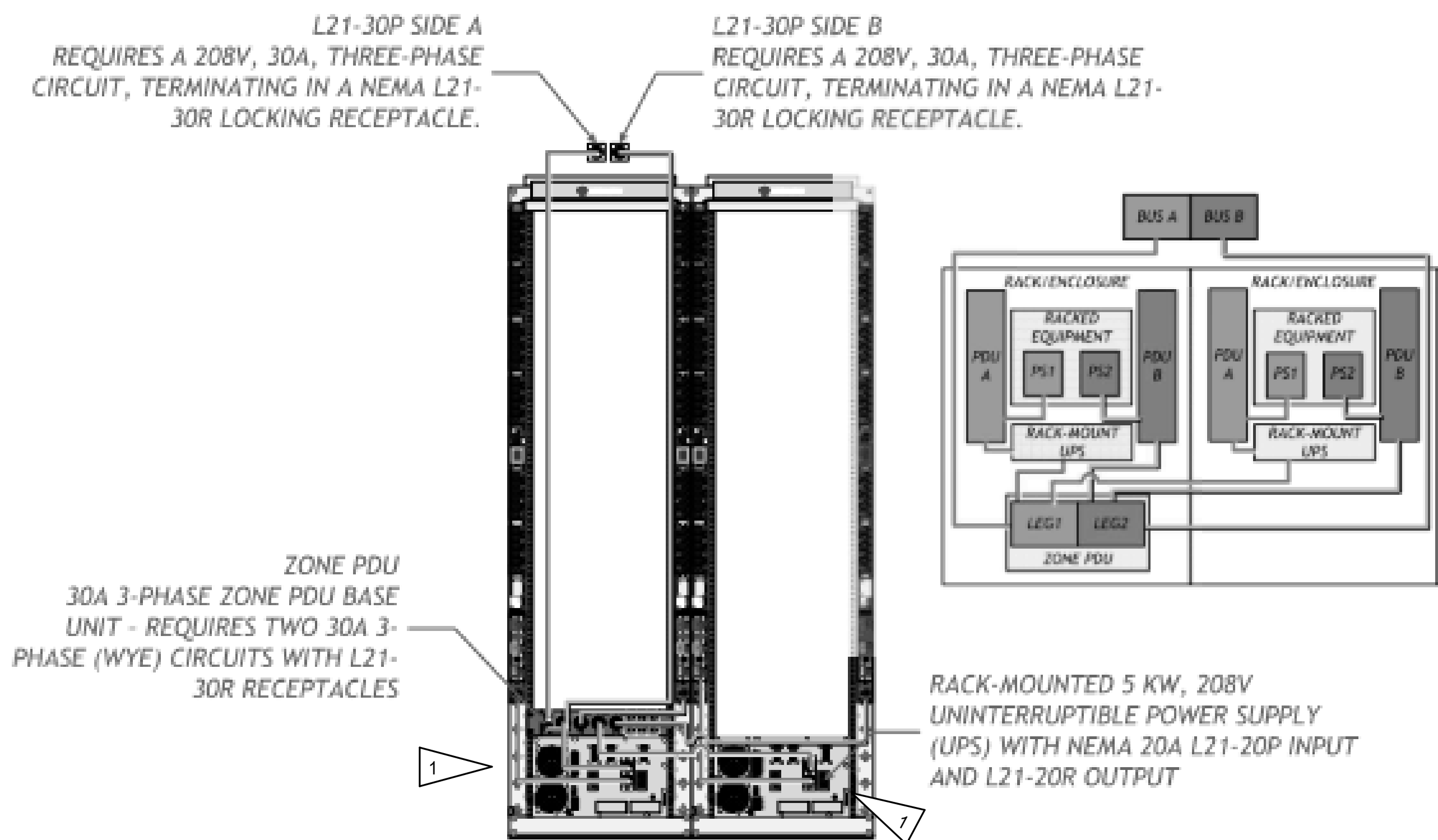
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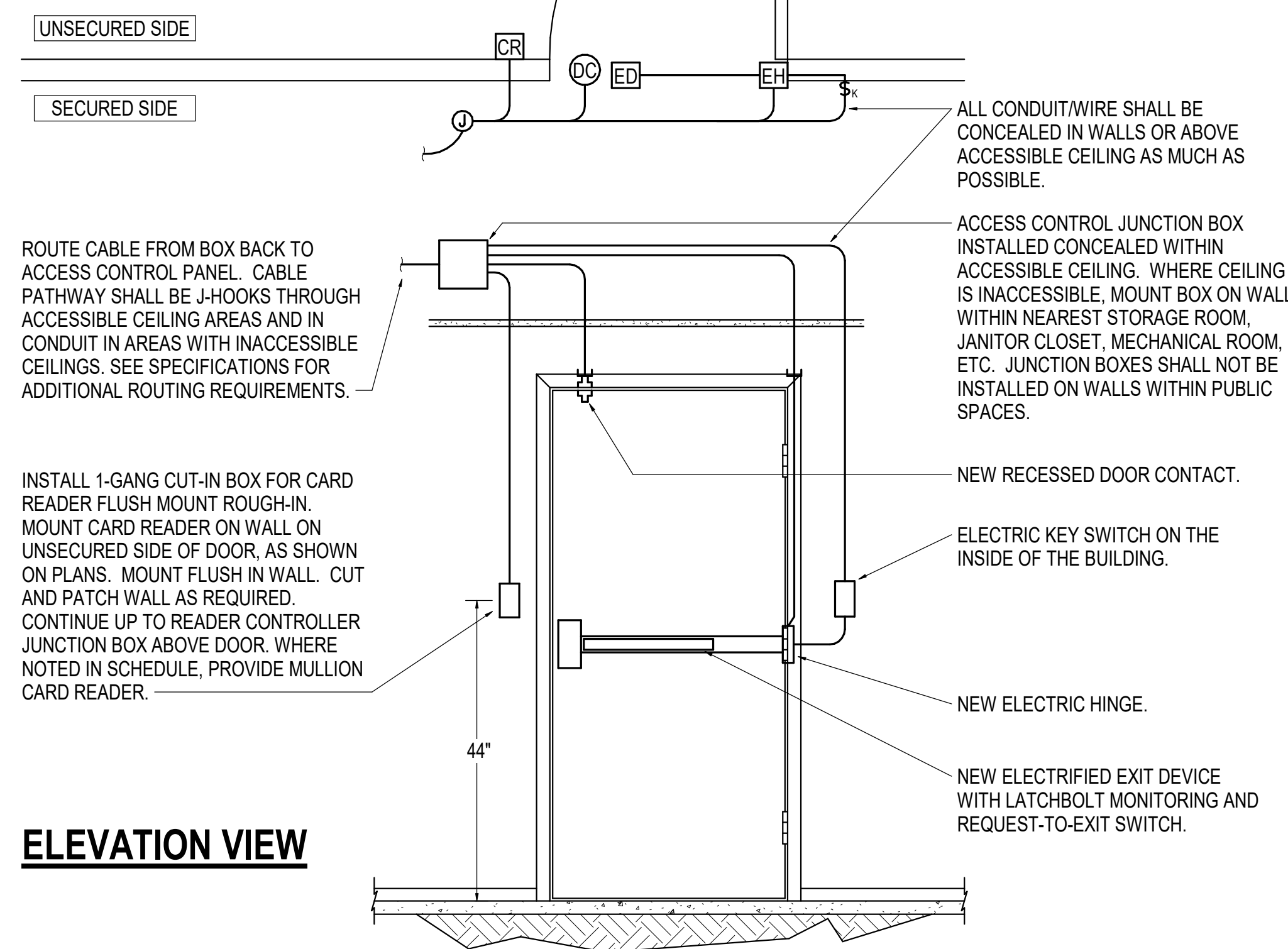
SHEET NOTES:

1. BUILDINGS 113, 145, 146, AND 148 WILL HAVE A CENTRALIZED UPS SYSTEM AND WILL NOT REQUIRE RACK-MOUNTED UPS.



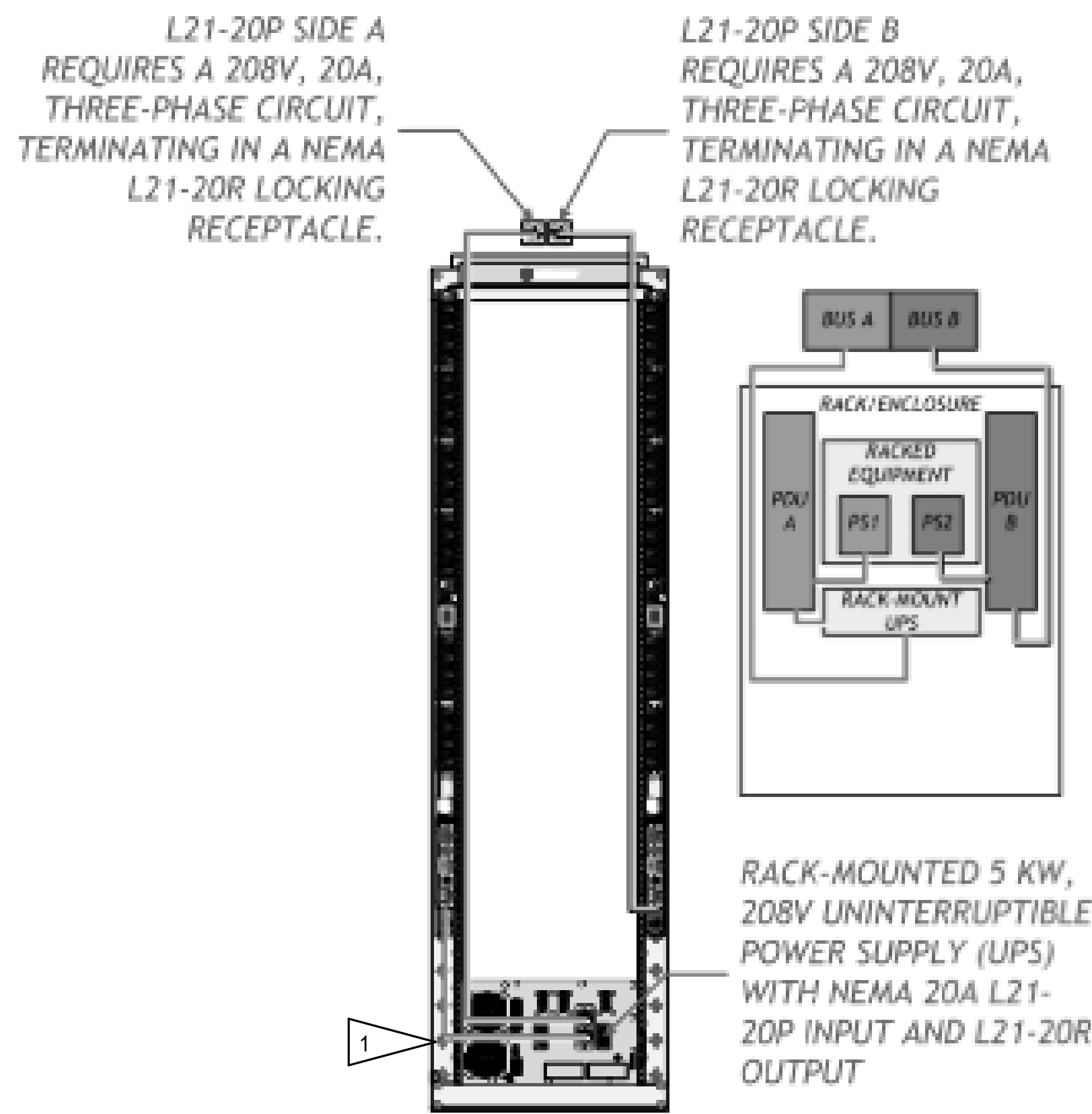
3 TYPICAL POWER ELEVATION AND SCHEMATIC FOR A TWO RACK TR  
NOT TO SCALE

PLAN VIEW



ELEVATION VIEW

1 CONTROLLED DOOR- SINGLE DOOR, ELECTRIFIED EXIT DEVICE  
NOT TO SCALE



2 TYPICAL POWER ELEVATION AND SCHEMATIC FOR A ONE RACK TR  
NOT TO SCALE

5/25/2022 9:48:44 AM  
E:\360\21\112\_VA Medical Center - Ft Meade SD\SERIES DETAILS\_R201.rvt

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| Revisions: | Date: |

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Phone (907) 279-0521  
Corporate No.: AECC542

STAMP

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

U.S. Department  
of Veterans Affairs

DRAWING TITLE

POWER AND ELEVATION  
SCHEMATIC FOR TR RACK

APPROVED: Project Director

PHASE

100% CONSTRUCTION  
DOCUMENTS

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

FORT MEADE, SOUTH DAKOTA

ISSUE DATE

05/25/2022

CHECKED BY

JAM

DRAWN BY

LKA, CK

PROJECT NUMBER

568-21-701

BUILDING NUMBER

DRAWING NUMBER

EK-014

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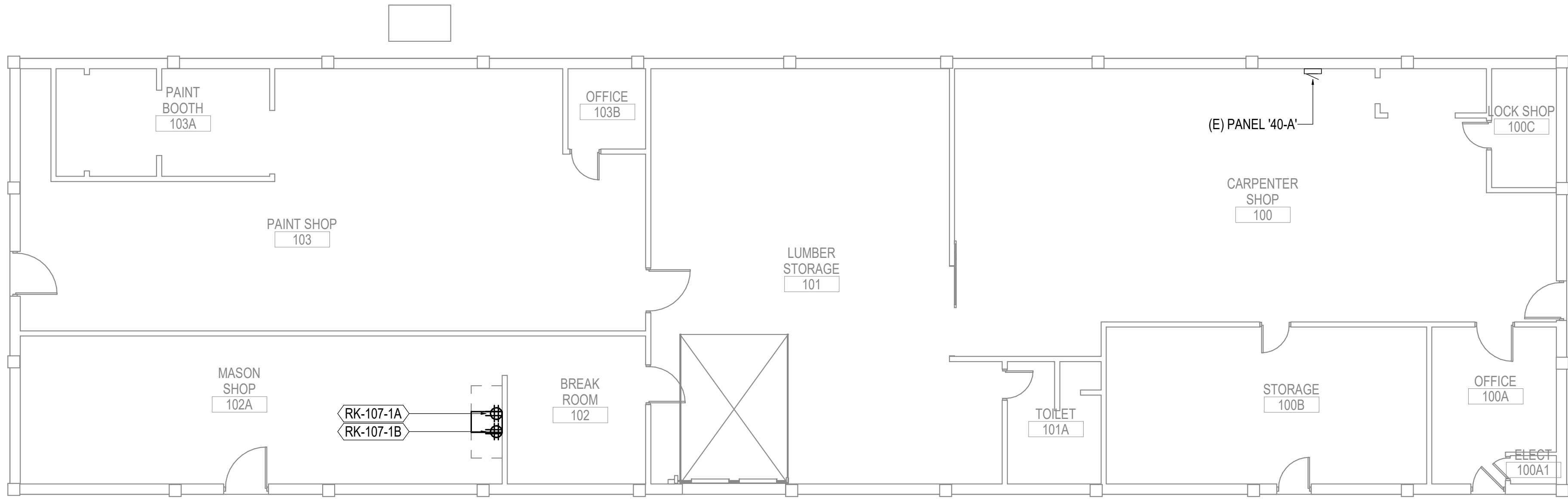
F

EQUIPMENT SCHEDULE

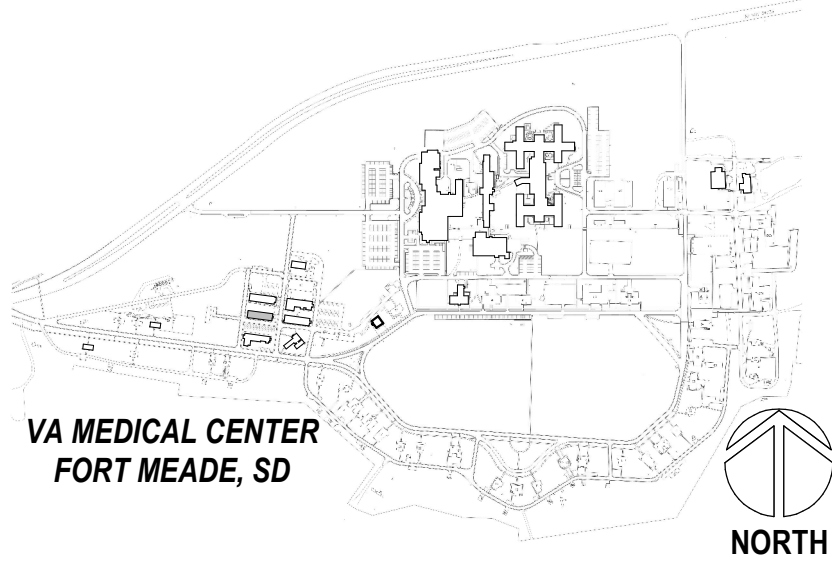
| ID TAG     | EQUIPMENT DESCRIPTION      | ELECTRICAL DATA |     |      |    |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE         | NOTES |
|------------|----------------------------|-----------------|-----|------|----|------|---|---------------------|-----------------|----------------------------------|-------|
|            |                            | HP              | AMP | WATT | VA | VOLT | Ø |                     |                 |                                  |       |
| RK-102A-1A | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 40-A - 37       | 0.75" C,1#12,1#10 NEUT, 1#12 GND | -     |
| RK-102A-1B | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 40-A - 39       | 0.75" C,1#12,1#10 NEUT, 1#12 GND | -     |

GENERAL NOTES:

A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.



PROJECT KEY PLAN



1 ELECTRICAL REMODEL PLAN - BLDG 40 FIRST FLOOR  
1/8" = 1'-0"

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| Revisions: | Date: |

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Corporate No.: AECC542

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PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)

U.S. Department of Veterans Affairs

DRAWING TITLE

40-ELECTRICAL REMODEL PLAN - FIRST FLOOR

APPROVED: Project Director

PHASE

100% CONSTRUCTION DOCUMENTS

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

LOCATION

FORT MEADE, SOUTH DAKOTA

ISSUE DATE

05/25/2022

CHECKED BY

JAM

DRAWN BY

CK,LKA

PROJECT NUMBER

568-21-701

BUILDING NUMBER

BLDG 40

DRAWING NUMBER

040-EP-011

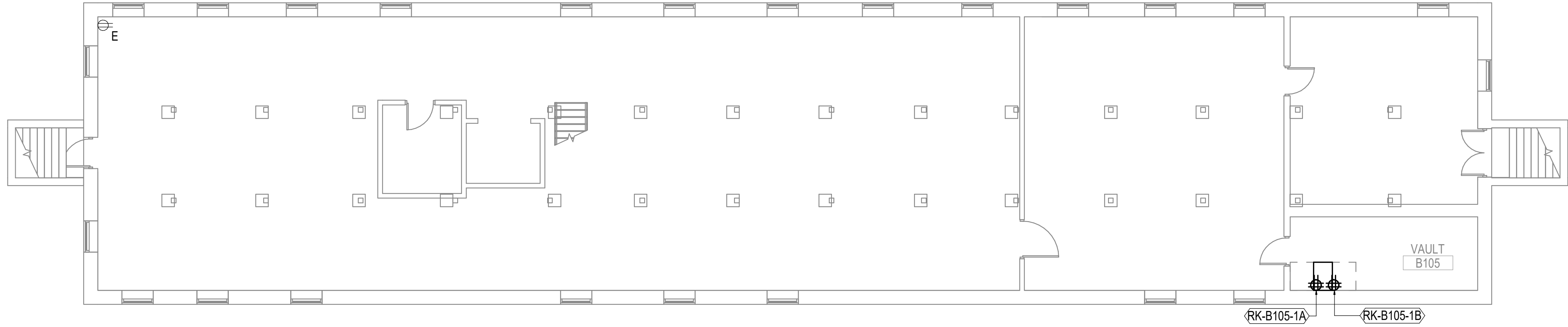
5/25/2022 11:27:38 AM  
BLM 360/2/1112\_VA Medical Center - Ft Meade SD ESERIES - BLDG 46\_R20.rvt

EQUIPMENT SCHEDULE

| ID TAG     | EQUIPMENT DESCRIPTION      | ELECTRICAL DATA |     |      |    |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE           | NOTES |
|------------|----------------------------|-----------------|-----|------|----|------|---|---------------------|-----------------|------------------------------------|-------|
|            |                            | HP              | AMP | WATT | VA | VOLT | Ø |                     |                 |                                    |       |
| RK-B105-1A | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 46 - DOCK - 14  | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |
| RK-B105-1B | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 46 - DOCK - 17  | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |

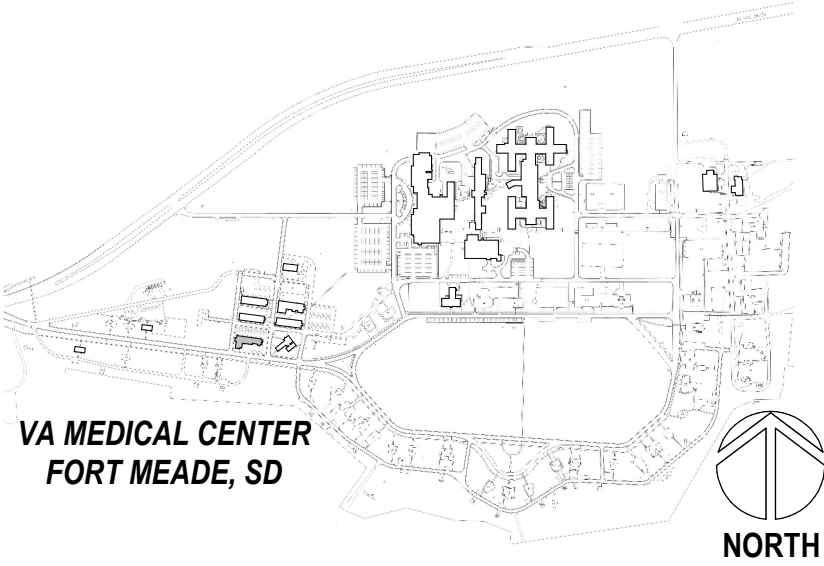
GENERAL NOTES:

A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.



1 ELECTRICAL REMODEL PLAN - BLDG 46 BASEMENT  
1/8" = 1'-0"

PROJECT KEY PLAN



|            |       |
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| Revisions: | Date: |
|            |       |
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Corporate No.: AECC542

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PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)

U.S. Department of Veterans Affairs

DRAWING TITLE

46-ELECTRICAL REMODEL PLAN - BASEMENT

APPROVED: Project Director

PHASE

100% CONSTRUCTION DOCUMENTS

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

LOCATION

FORT MEADE, SOUTH DAKOTA

ISSUE DATE

05/25/2022

CHECKED BY

JAM

DRAWN BY

CK,LKA

PROJECT NUMBER

568-21-701

BUILDING NUMBER

BLDG 46

DRAWING NUMBER

046-EP-0B1

EQUIPMENT SCHEDULE

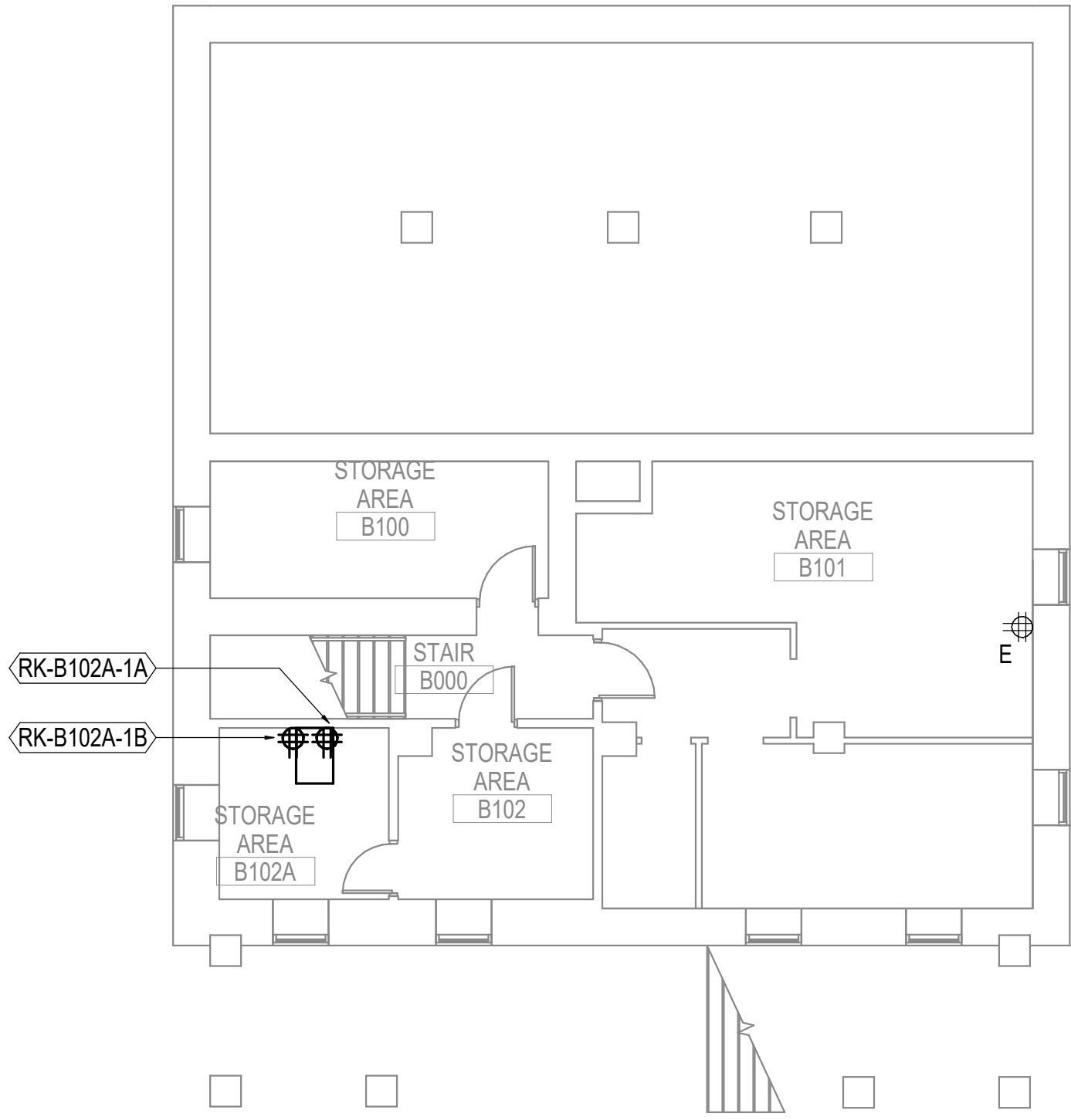
| ID TAG      | EQUIPMENT DESCRIPTION      | ELECTRICAL DATA |     |      |    |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE           | NOTES |
|-------------|----------------------------|-----------------|-----|------|----|------|---|---------------------|-----------------|------------------------------------|-------|
|             |                            | HP              | AMP | WATT | VA | VOLT | Φ |                     |                 |                                    |       |
| RK-B102A-1A | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 50A - 21        | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |
| RK-B102A-1B | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 50B - 9         | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |

GENERAL NOTES:

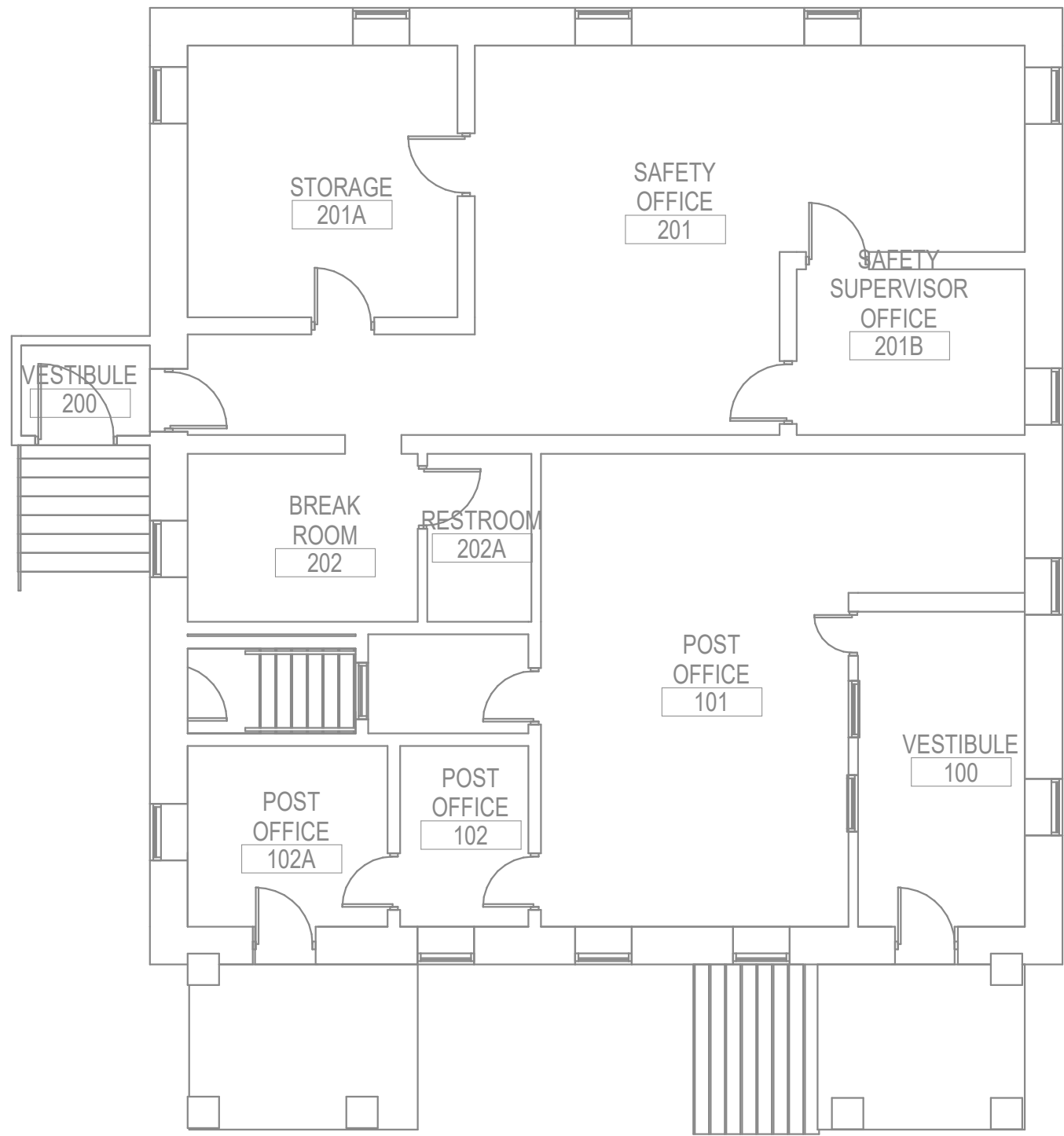
- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.

SHEET NOTES:

1. PROVIDE NEW BREAKERS IN (E) PANELS FOR NEW LOADS. REMOVE SPARE BREAKERS TO MAKE ROOM FOR NEW BREAKERS. BREAKERS SIZES AS FOLLOWS:  
RK-B102A-1A - 20A, 1P IN PANEL 50A  
RK-B102B-1A - 20A, 1P IN PANEL 50B

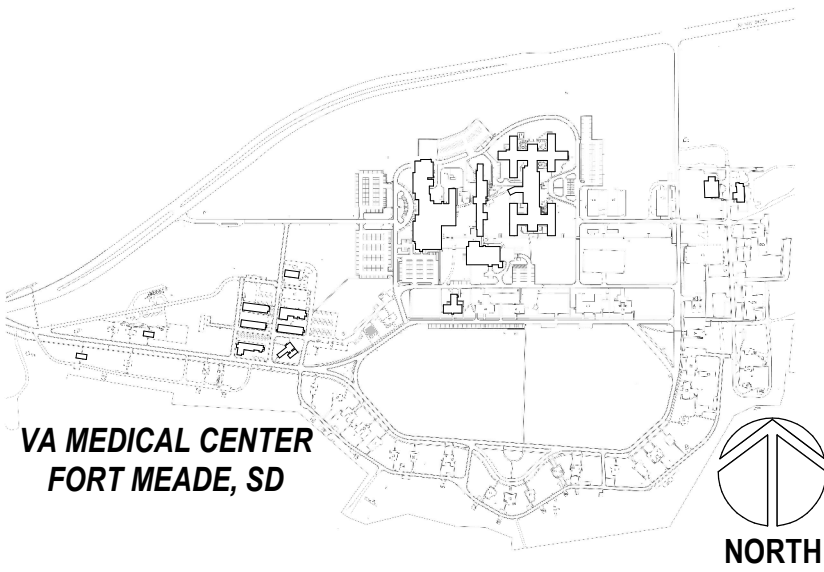


1 ELECTRICAL REMODEL PLAN - BLDG 50 BASEMENT  
1/8" = 1'-0"



2 ELECTRICAL REMODEL PLAN - BLDG 50 FIRST FLOOR  
1/8" = 1'-0"

PROJECT KEY PLAN



|            |       |
|------------|-------|
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|            |       |
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| Revisions: | Date: |

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Corporate No.: AECC542

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PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)

U.S. Department of Veterans Affairs

DRAWING TITLE

50-ELECTRICAL REMODEL PLAN

APPROVED: Project Director

PHASE

100% CONSTRUCTION DOCUMENTS

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

LOCATION

FORT MEADE, SOUTH DAKOTA

ISSUE DATE

05/25/2022

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DRAWN BY

CK,LKA

PROJECT NUMBER

568-21-701

BUILDING NUMBER

BLDG 50

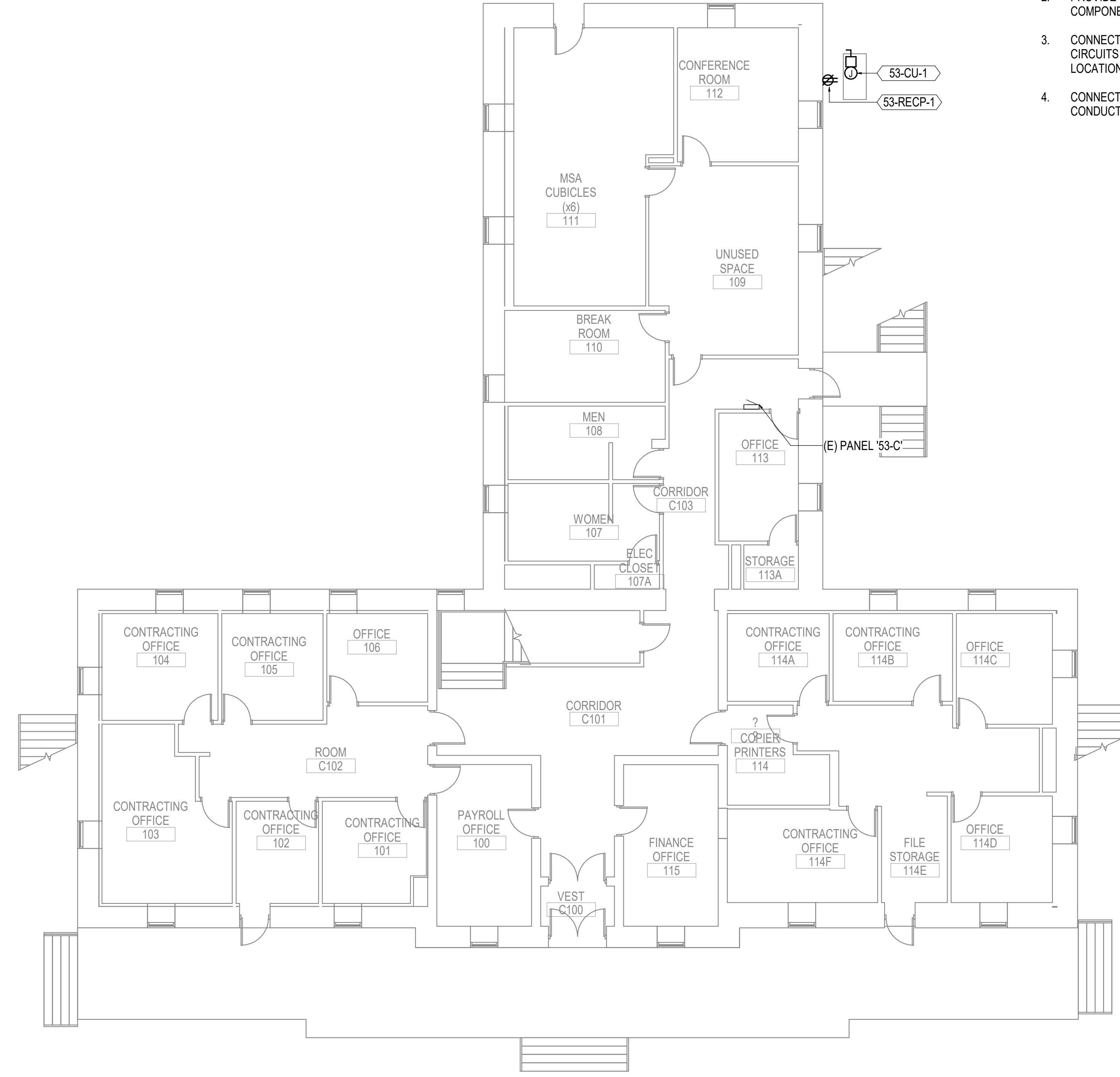
DRAWING NUMBER

050-EP-011

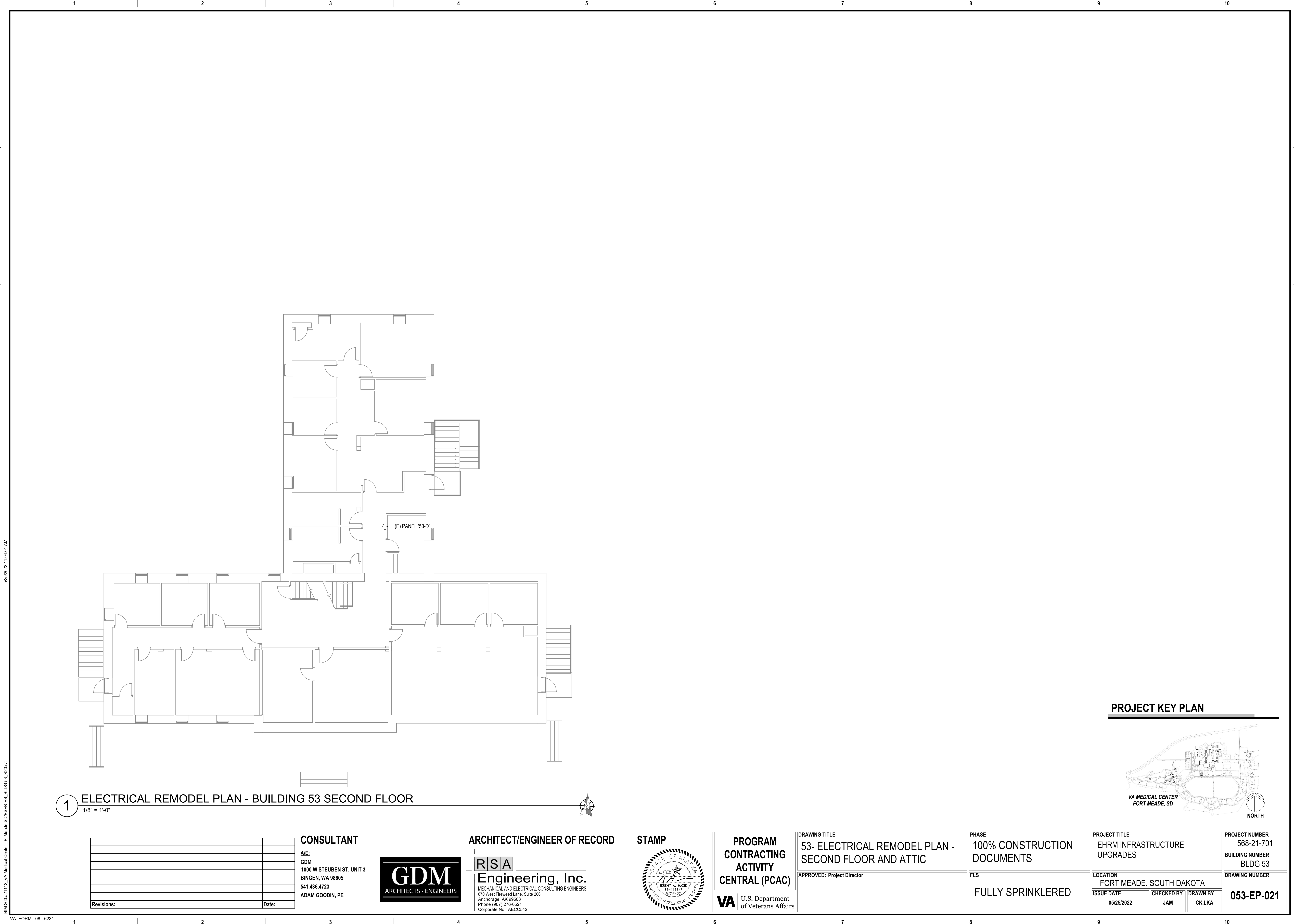


**NORTH**

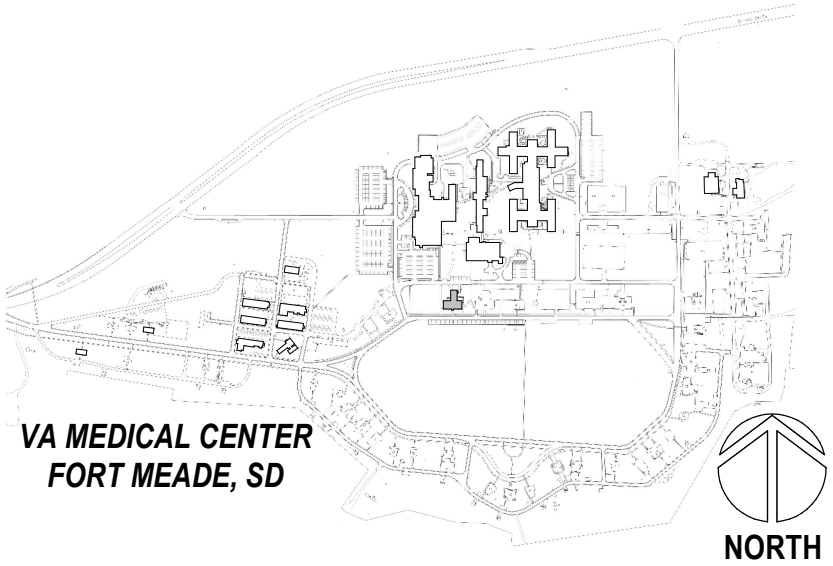
2 ELECTRICAL REMODEL PLAN - BUILDING 53 FIRST FLOOR  
1/8" = 1'-0"



|                                     |
|-------------------------------------|
| PROJECT NUMBER<br>568-21-701        |
| BUILDING NUMBER<br>BLDG 53          |
| DRAWING NUMBER<br><b>053-EP-0B1</b> |



PROJECT KEY PLAN



1 ELECTRICAL REMODEL PLAN - BUILDING 53 SECOND FLOOR  
1/8" = 1'-0"

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| Revisions: | Date: |

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541.436.4723  
ADAM GOODIN, PE

GDM

ARCHITECTS • ENGINEERS

ARCHITECT/ENGINEER OF RECORD

RISA

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Phone (907) 276-0521  
Corporate No.: AECC542

STAMP

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

U.S. Department  
of Veterans Affairs

DRAWING TITLE

53- ELECTRICAL REMODEL PLAN -  
SECOND FLOOR AND ATTIC

APPROVED: Project Director

PHASE

100% CONSTRUCTION  
DOCUMENTS

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

FORT MEADE, SOUTH DAKOTA

ISSUE DATE

05/25/2022

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DRAWN BY

CK,LKA

PROJECT NUMBER

568-21-701

BUILDING NUMBER

BLDG 53

DRAWING NUMBER

053-EP-021

EQUIPMENT SCHEDULE:

| ID TAG      | EQUIPMENT DESCRIPTION   | ELECTRICAL DATA |     |      |     |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE           | NOTES                                       |
|-------------|-------------------------|-----------------|-----|------|-----|------|---|---------------------|-----------------|------------------------------------|---------------------------------------------|
|             |                         | HP              | AMP | WATT | VA  | VOLT | Φ |                     |                 |                                    |                                             |
| 88-IU-1     | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 88-4-18,20      | 0.75" C, 2#6, 1#10 GND             | INTEGRAL CONTROLLER                         |
| 88-CU-1     | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 88-4-22,24      | 0.75" C, 2#10, 1#10 GND            | INTEGRAL CONTROLLER                         |
| RK-B102D-1A | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 88-1-25,27,29   | 0.75" C, 3#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| RK-B102D-1B | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 88-4 - 17,19,21 | 0.75" C, 3#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| 88-RECP-1   | CONVENIENCE RECEPTACLE  | -               | -   | -    | 180 | 120  | 1 | N/A                 | 88-4-23         | 0.75" C, 2#10, 1#10 GND            | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |

GENERAL NOTES:

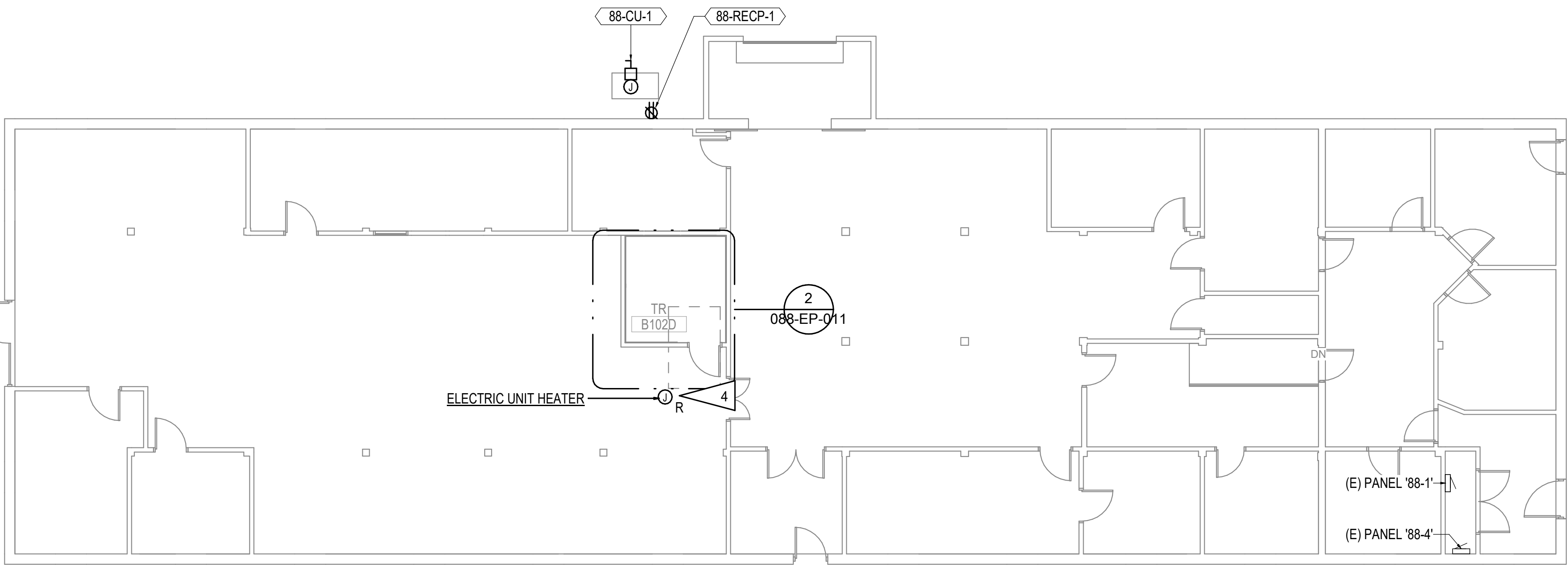
- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE LIGHTING LAYOUT WITH RACK AND CABLE TRAY LOCATIONS TO PROVIDE ILLUMINATION ON EQUIPMENT PER LIGHTING DESIGN REQUIREMENTS.
- C. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.
- D. SEE T1-004 FOR TYPICAL NEW 1&2 RACK TELECOM ROOM POWER SYSTEMS LAYOUT.

SHEET NOTES:

1. PROVIDE NEW BREAKERS IN (E) PANELS FOR NEW LOADS. REMOVE EXISTING SPARE BREAKERS TO MAKE ROOM FOR NEW BREAKERS. BREAKERS SIZES AS FOLLOWS:  
88-IU-1 - 45A, 1P IN PANEL 88-4 GENERAL ELECTRIC, AF37S  
88-CU-1 - 45A, 2P IN PANEL 88-4 GENERAL ELECTRIC, AF37S  
RK-B102D-1A - 20A, 3P IN PANEL 88-1 GENERAL ELECTRIC, AF37S  
RK-B102D-1B - 20A, 3P IN PANEL 88-4 GENERAL ELECTRIC, AF37S  
88-ACP-1 - 20A, 1P IN PANEL 88-4 GENERAL ELECTRIC, AF37S
2. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.
3. CONNECT NEW RECEPTACLES, LIGHTING, AND SWITCHES TO EXISTING CIRCUITS IN AREA. EXTEND CONDUIT AND CONDUCTORS TO NEW LOCATIONS.
4. RECONNECT UNIT HEATER TO EXISTING UNIT HEATER CIRCUIT. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE AS REQUIRED.

2 ENLARGED ROOM - B102D ELECTRICAL REMODEL

1/2" = 1'-0"

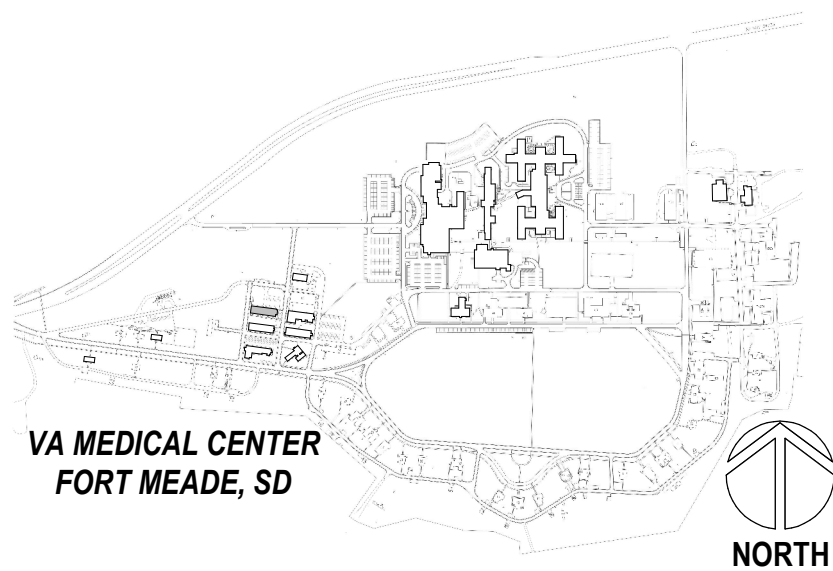


1 ELECTRICAL REMODEL PLAN - BLDG 88 FIRST FLOOR

1/8" = 1'-0"



PROJECT KEY PLAN



|            |       |
|------------|-------|
| Revisions: | Date: |
|            |       |
|            |       |
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|            |       |
|            |       |
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|            |       |
|            |       |

**CONSULTANT**

A/E:  
GDM  
1000 W STEUBEN ST. UNIT 3  
BINGEN, WA 98605  
541.436.4723  
ADAM GOODIN, PE

**GDM**  
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**ARCHITECT/ENGINEER OF RECORD**

**RISA**  
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670 West Fireweed Lane, Suite 200  
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Corporate No.: AECC542

**STAMP**

STATE OF ALASKA  
JEREMY A. MAXIE  
E.E. 113847  
REGISTERED PROFESSIONAL ENGINEER

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
088 - ELECTRICAL REMODEL PLAN

**APPROVED:** Project Director

**PHASE**  
100% CONSTRUCTION DOCUMENTS

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
FORT MEADE, SOUTH DAKOTA

**ISSUE DATE**  
05/25/2022

**CHECKED BY**  
JAM

**DRAWN BY**  
CK,LKA

**PROJECT NUMBER**  
568-21-701

**BUILDING NUMBER**  
BLDG 88

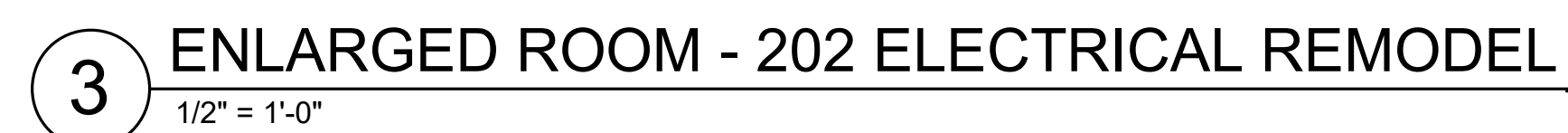
**DRAWING NUMBER**  
088-EP-011



| ID TAG    | EQUIPMENT DESCRIPTION   | ELECTRICAL DATA |     |      |     |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE            | NOTES                                       |
|-----------|-------------------------|-----------------|-----|------|-----|------|---|---------------------|-----------------|-------------------------------------|---------------------------------------------|
|           |                         | HP              | AMP | WATT | VA  | VOLT | Ø |                     |                 |                                     |                                             |
| 89-U1     | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 89-N2-T1-7.9    | 0.75" 5C, 2#6, 1#10 GND             | INTEGRAL CONTROLLER                         |
| 89-CU-1   | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 89-N2-T1-11,13  | 0.75" 5C, 2#10, 1#10 GND            | INTEGRAL CONTROLLER                         |
| RK-202-1A | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 89-A-36,38,40   | 0.75" 5C, 1#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| RK-202-1B | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 89-N2-T1-1,3,5  | 0.75" 5C, 1#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| 89-RECP-1 | CONVENIENCE RECEPTACLE  | -               | -   | -    | 180 | 120  | 1 | N/A                 | 89-N2-T1-5      | 0.75" 5C, 2#10, 1#10 GND            | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |

- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE LIGHTING LAYOUT WITH RACK AND CABLE TRAY LOCATIONS TO PROVIDE ILLUMINATION ON EQUIPMENT PER LIGHTING DESIGN REQUIREMENTS.
- C. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.

1. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.
2. PROVIDE 60A RATED FUSES IN EXISTING FUSED SWITCH BOARD.
3. PROVIDE NEW 3Ø CIRCUIT FROM EXISTING PANELBOARD '89-A'



VA MEDICAL CENTER  
FORT MEADE, SD

**CONSULTANT**

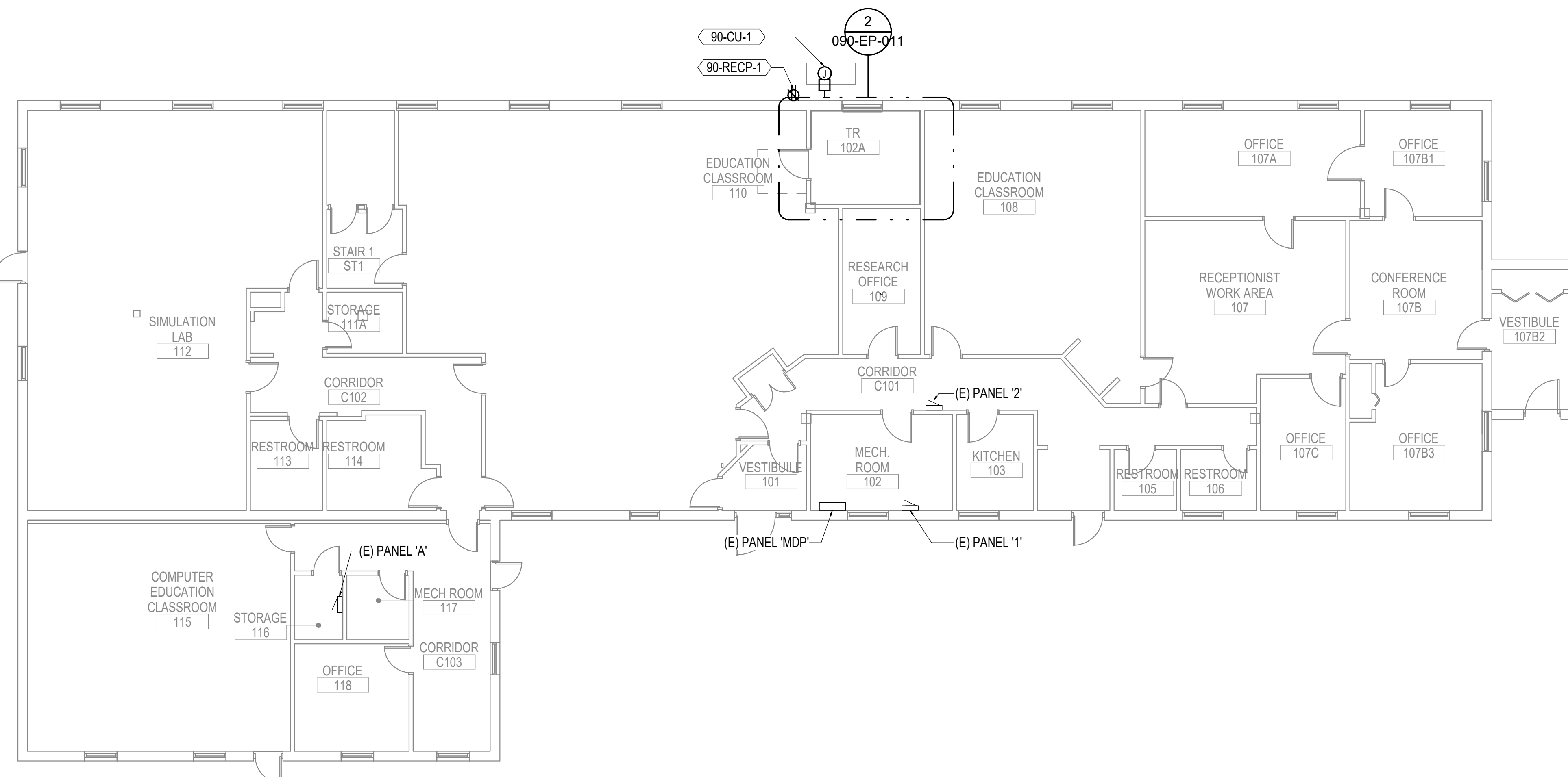
**A/E:**  
**GDM**  
1000 W STEUBEN ST. UNIT 3  
BINGEN, WA 98605  
541.436.4723  
ADAM GOODIN, PE

|                                    |
|------------------------------------|
| DRAWING TITLE                      |
| BLDG 89 ELECTRICAL REMODEL<br>PLAN |
| APPROVED: Project Director         |
|                                    |

|                              |            |          |
|------------------------------|------------|----------|
| PROJECT TITLE                |            |          |
| EHRM INFRASTRUCTURE UPGRADES |            |          |
| LOCATION                     |            |          |
| FORT MEADE, SOUTH DAKOTA     |            |          |
| ISSUE DATE                   | CHECKED BY | DRAWN BY |
| 05/25/2022                   | JAM        | CK,LKA   |

|                 |
|-----------------|
| PROJECT NUMBER  |
| 568-21-701      |
| BUILDING NUMBER |
| BLDG 89         |
| DRAWING NUMBER  |
| 089-EP-011      |

1. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.
2. CONNECT NEW RECEPTACLES, LIGHTING, AND SWITCHES TO EXISTING CIRCUITS IN AREA. EXTEND CONDUIT AND CONDUCTORS TO NEW LOCATIONS.

$$2'' = 1'-0''$$


---


$$1/8" = 1'-0"$$

**VA MEDICAL CENTER  
FORT MEADE, SD**

PROJECT NUMBER  
568-21-701

BUILDING NUMBER  
BLDG 90

DRAWING NUMBER  
**090-EP-011**



A

B

C

D

E

F

5/26/2022 10:54:31 AM

BM 36012/112 - VA Medical Center - Ft Meade SD SERIES: BLDG 113\_120.rvt

EQUIPMENT SCHEDULE

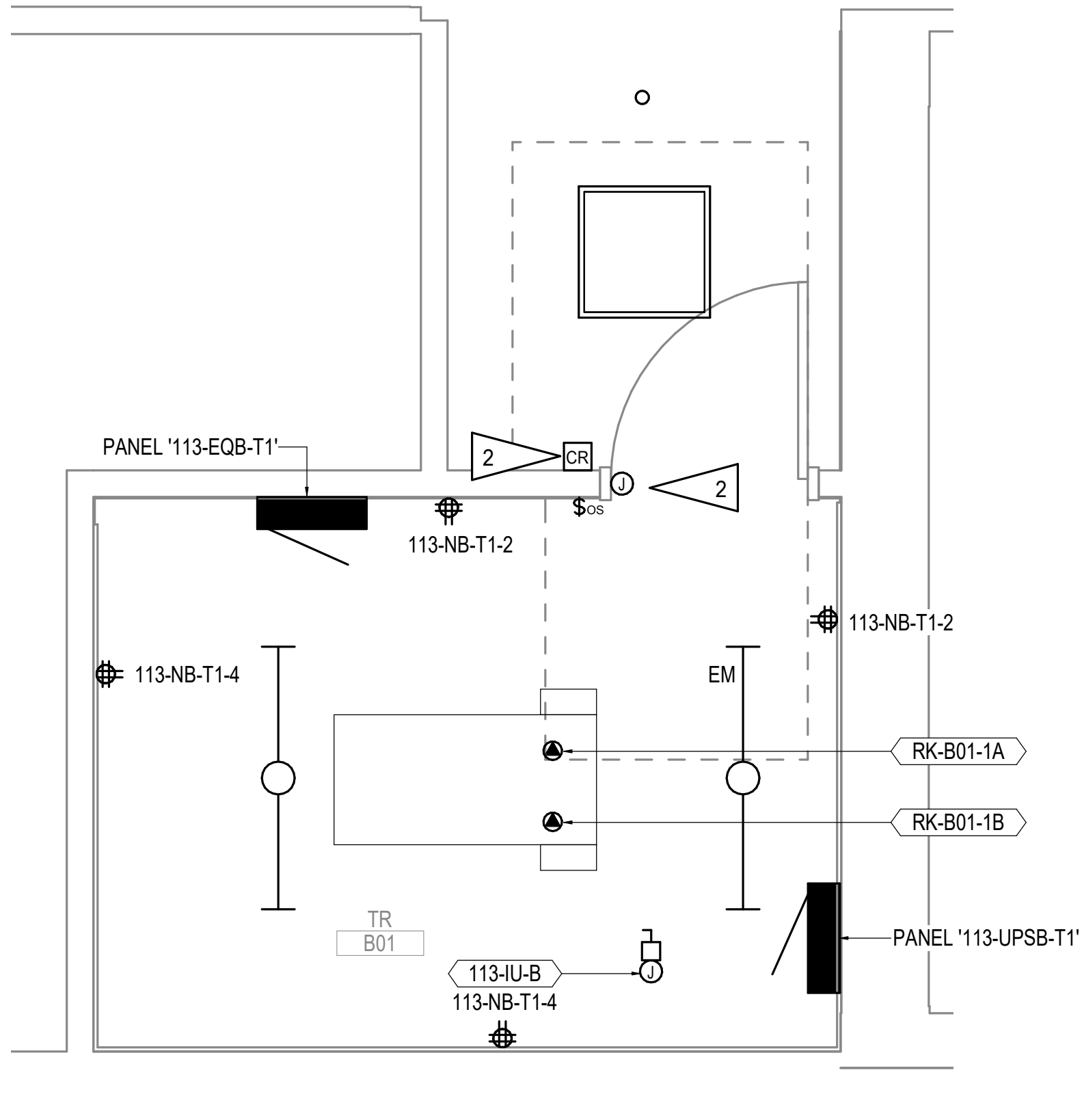
| ID TAG       | EQUIPMENT DESCRIPTION   | ELECTRICAL DATA |     |      |     |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT      | CONDUIT / CONDUCTOR SIZE           | NOTES                                       |
|--------------|-------------------------|-----------------|-----|------|-----|------|---|---------------------|----------------------|------------------------------------|---------------------------------------------|
|              |                         | HP              | AMP | WATT | VA  | VOLT | Φ |                     |                      |                                    |                                             |
| 113-IU-B     | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 113-EQB-T1 - 7,9     | 0.75" C, 2#6, 1#10 GND             | INTEGRAL CONTROLLER                         |
| 113-IU-1     | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 113-EQ1-T1 - 13,15   | 0.75" C, 2#6, 1#10 GND             | INTEGRAL CONTROLLER                         |
| 113-IU-2     | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 113-EQ1-T1 - 17,19   | 0.75" C, 2#6, 1#10 GND             | INTEGRAL CONTROLLER                         |
| 113-CU-B     | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 113-EQB-T1 - 11,13   | 0.75" C, 2#10, 1#10 GND            | INTEGRAL CONTROLLER                         |
| 113-CU-1     | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 113-EQ1-T1 - 21,23   | 0.75" C, 2#10, 1#10 GND            | INTEGRAL CONTROLLER                         |
| 113-CU-2     | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 113-EQ1-T1 - 25,27   | 0.75" C, 2#10, 1#10 GND            | INTEGRAL CONTROLLER                         |
| RK-B01-1A    | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 113-UPSB-T1 - 1,3,5  | 0.75" C, 3#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| RK-B01-1B    | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 113-EQB-T1 - 1,3,5   | 0.75" C, 3#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| ZP-169-1A    | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 113-UPS1-T1 - 1,3,5  | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND  | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-169-1B    | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 113-EQ1-T1 - 1,3,5   | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND  | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-192A-1A   | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 113-UPS1-T1 - 7,9,11 | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND  | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-192A-1B   | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 113-EQ1-T1 - 7,9,11  | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND  | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| RK-ECIE-1A   | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 113-UPS1-T1-13,15,17 | 0.75" C, 3#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| RK-ECIE-1B   | TELECOM RACK RECEPTACLE | -               | -   | 3500 | -   | 208  | 3 | N/A                 | 113-EQ1-T1-29,31,33  | 0.75" C, 3#12, 1#10 NEUT, 1#12 GND | PROVIDE NEMA L21-20R                        |
| ZP-TCS103-1A | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 113-UPS1-T1-4,6,8    | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND  | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-TCS103-1B | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 113-EQ1-T1-6,8,10    | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND  | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| 113-RECP-1   | CONVENIENCE RECEPTACLE  | -               | -   | -    | 180 | 120  | 1 | N/A                 | 113-UPS1-T1-12       | 0.75" C, 2#10, 1#10 GND            | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |

GENERAL NOTES:

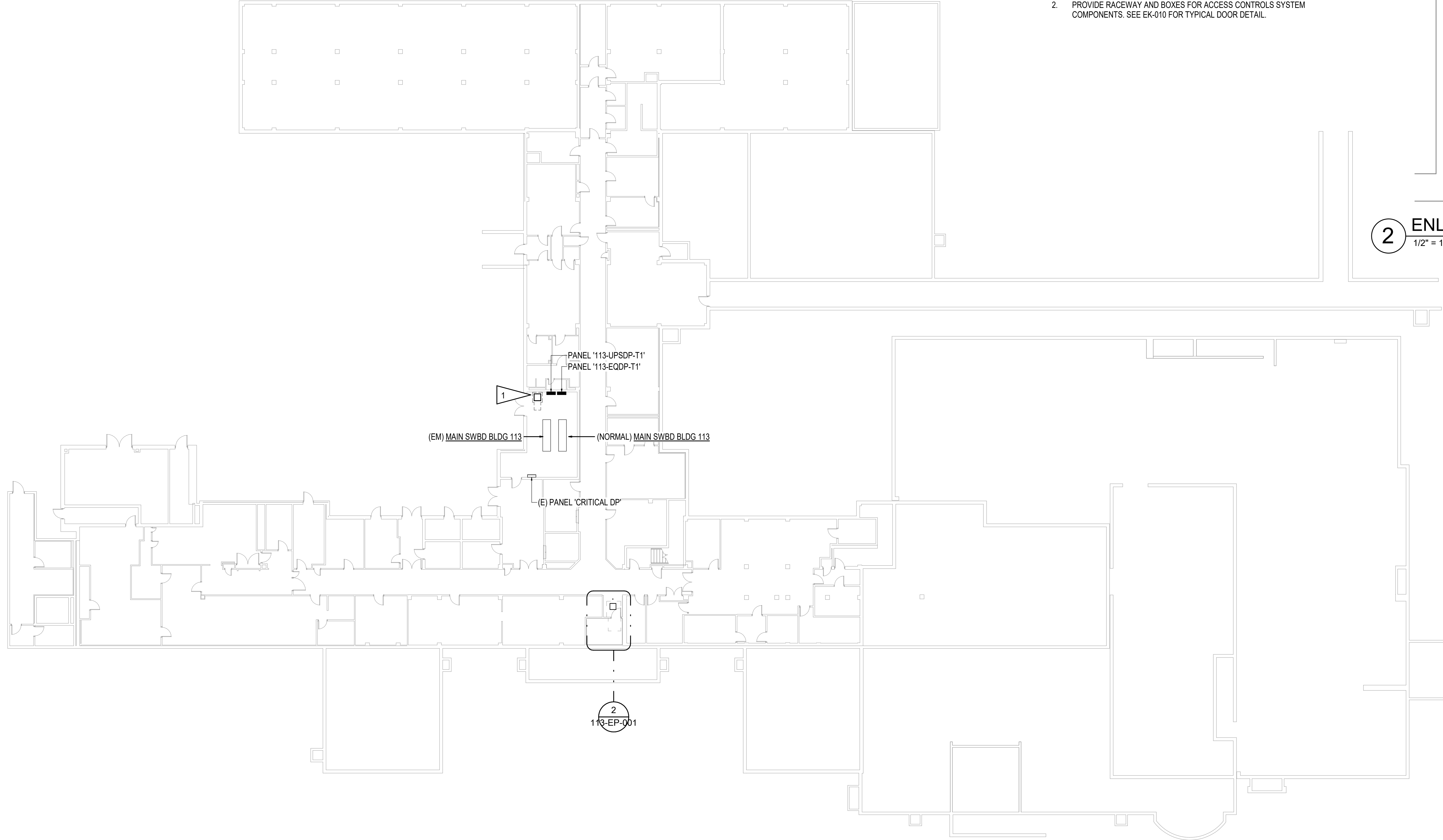
- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE LIGHTING LAYOUT WITH RACK AND CABLE TRAY LOCATIONS TO PROVIDE ILLUMINATION ON EQUIPMENT PER LIGHTING DESIGN REQUIREMENTS.
- C. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.

SHEET NOTES:

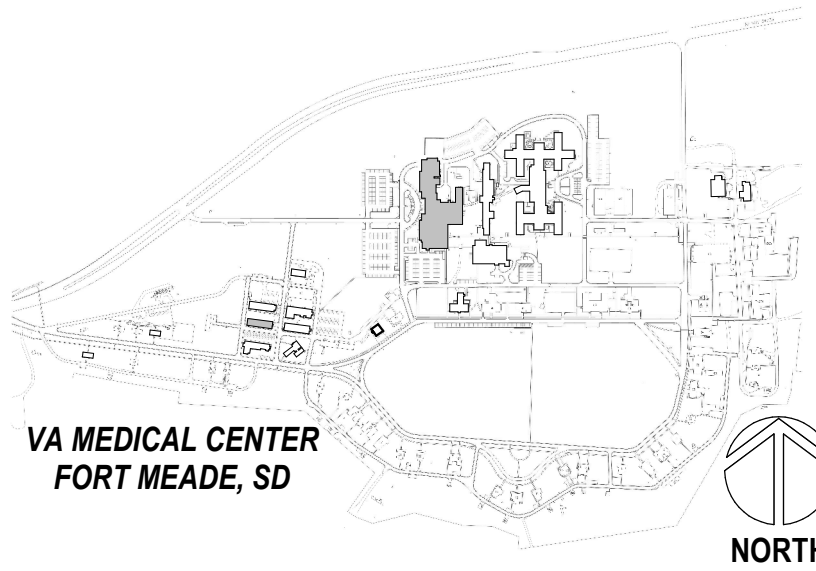
1. NEW 277/480V-120/208V 75KVA TRANSFORMER TO FEED NEW PANEL '113-UPSDP1-T1'.
2. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.



2 ENLARGED ROOM - B01 ELECTRICAL REMODEL  
1/2" = 1'-0"



PROJECT KEY PLAN



1 ELECTRICAL REMODEL PLAN - BLDG 113 BASEMENT  
1/16" = 1'-0"



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|            |       |
| Revisions: | Date: |

**CONSULTANT**

A/E:  
GDM  
1000 W STEUBEN ST. UNIT 3  
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541.436.4723  
ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

**ARCHITECT/ENGINEER OF RECORD**

**RSA**  
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MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS  
670 West Fireweed Lane, Suite 200  
Anchorage, AK 99503  
Phone (907) 278-0521  
Corporate No.: AECC542

**STAMP**

STATE OF ALASKA  
JEREMY A. MAXIE  
E-113847  
REGISTERED PROFESSIONAL ENGINEER

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE  
113 - ELECTRICAL REMODEL PLAN - BASEMENT LAYOUT

APPROVED: Project Director

PHASE  
100% CONSTRUCTION DOCUMENTS

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
FORT MEADE, SOUTH DAKOTA

ISSUE DATE  
05/25/2022

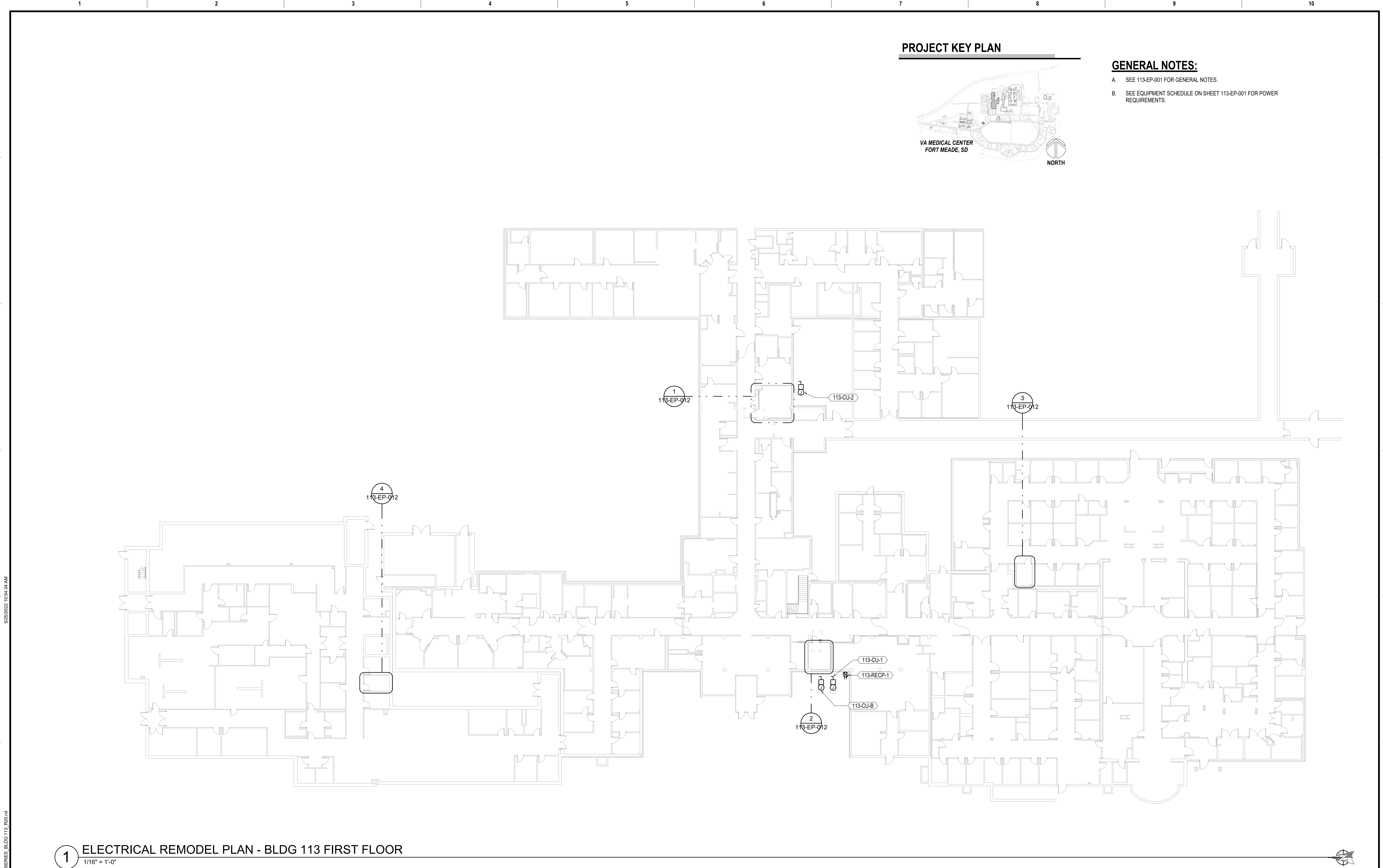
CHECKED BY  
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DRAWN BY  
CK,LKA

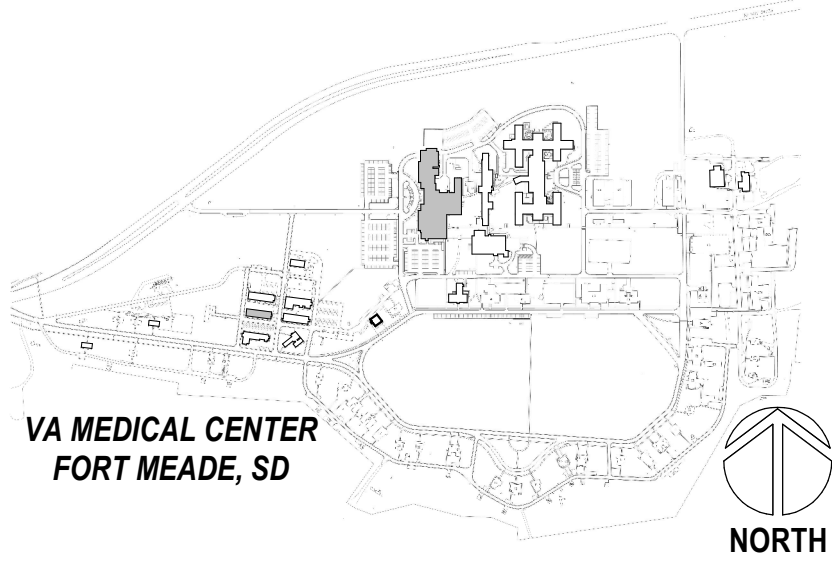
PROJECT NUMBER  
568-21-701

BUILDING NUMBER  
BLDG 113

DRAWING NUMBER  
113-EP-001



PROJECT KEY PLAN



GENERAL NOTES:

- A. SEE 113-EP-001 FOR GENERAL NOTES.  
B. SEE EQUIPMENT SCHEDULE ON SHEET 113-EP-001 FOR POWER REQUIREMENTS.

1 ELECTRICAL REMODEL PLAN - BLDG 113 FIRST FLOOR

1/16" = 1'-0"

|            |       |                                                                                                               |  |                                                                                                                                                                                                  |           |                                                          |                                                                                                      |                                                                     |                                                                                                                                                                 |                                                                                             |
|------------|-------|---------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Revisions: | Date: | CONSULTANT<br>A/E:<br>GDM<br>1000 W STEUBEN ST. UNIT 3<br>BINGEN, WA 98605<br>541.436.4723<br>ADAM GOODIN, PE |  | ARCHITECT/ENGINEER OF RECORD<br><br>MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS<br>670 West Fireweed Lane, Suite 200<br>Anchorage, AK 99503<br>Phone (907) 278-0521<br>Corporate No.: AECC542 | STAMP<br> | PROGRAM<br>CONTRACTING<br>ACTIVITY<br>CENTRAL (PCAC)<br> | DRAWING TITLE<br>113 - ELECTRICAL REMODEL PLAN<br>- FIRST FLOOR LAYOUT<br>APPROVED: Project Director | PHASE<br>100% CONSTRUCTION<br>DOCUMENTS<br>FLS<br>FULLY SPRINKLERED | PROJECT TITLE<br>EHRM INFRASTRUCTURE<br>UPGRADES<br>LOCATION<br>FORT MEADE, SOUTH DAKOTA<br>ISSUE DATE<br>05/25/2022<br>CHECKED BY<br>JAM<br>DRAWN BY<br>CK,LKA | PROJECT NUMBER<br>568-21-701<br>BUILDING NUMBER<br>BLDG 113<br>DRAWING NUMBER<br>113-EP-011 |
|            |       |                                                                                                               |  |                                                                                                                                                                                                  |           |                                                          |                                                                                                      |                                                                     |                                                                                                                                                                 |                                                                                             |

|                                  |
|----------------------------------|
| PROJECT NUMBER<br>568-21-701     |
| BUILDING NUMBER<br>BLDG 113      |
| DRAWING NUMBER<br><br>113-EP-012 |

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EQUIPMENT SCHEDULE:

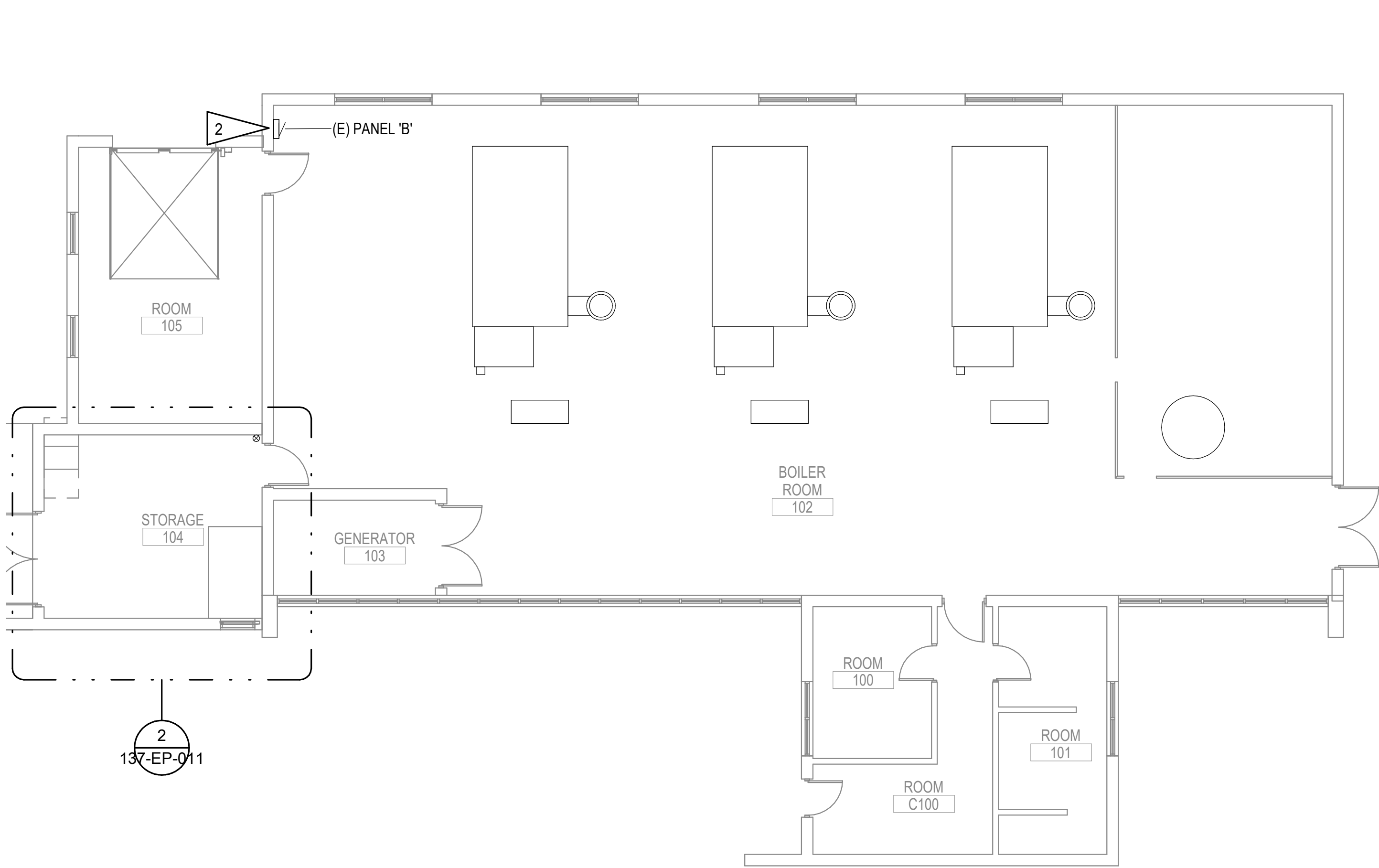
| ID TAG    | EQUIPMENT DESCRIPTION      | ELECTRICAL DATA |     |      |    |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE           | NOTES |
|-----------|----------------------------|-----------------|-----|------|----|------|---|---------------------|-----------------|------------------------------------|-------|
|           |                            | HP              | AMP | WATT | VA | VOLT | Ø |                     |                 |                                    |       |
| RK-104-1A | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 2 PANEL 'B'     | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |
| RK-104-1B | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | 2 PANEL 'B'     | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |

GENERAL NOTES:

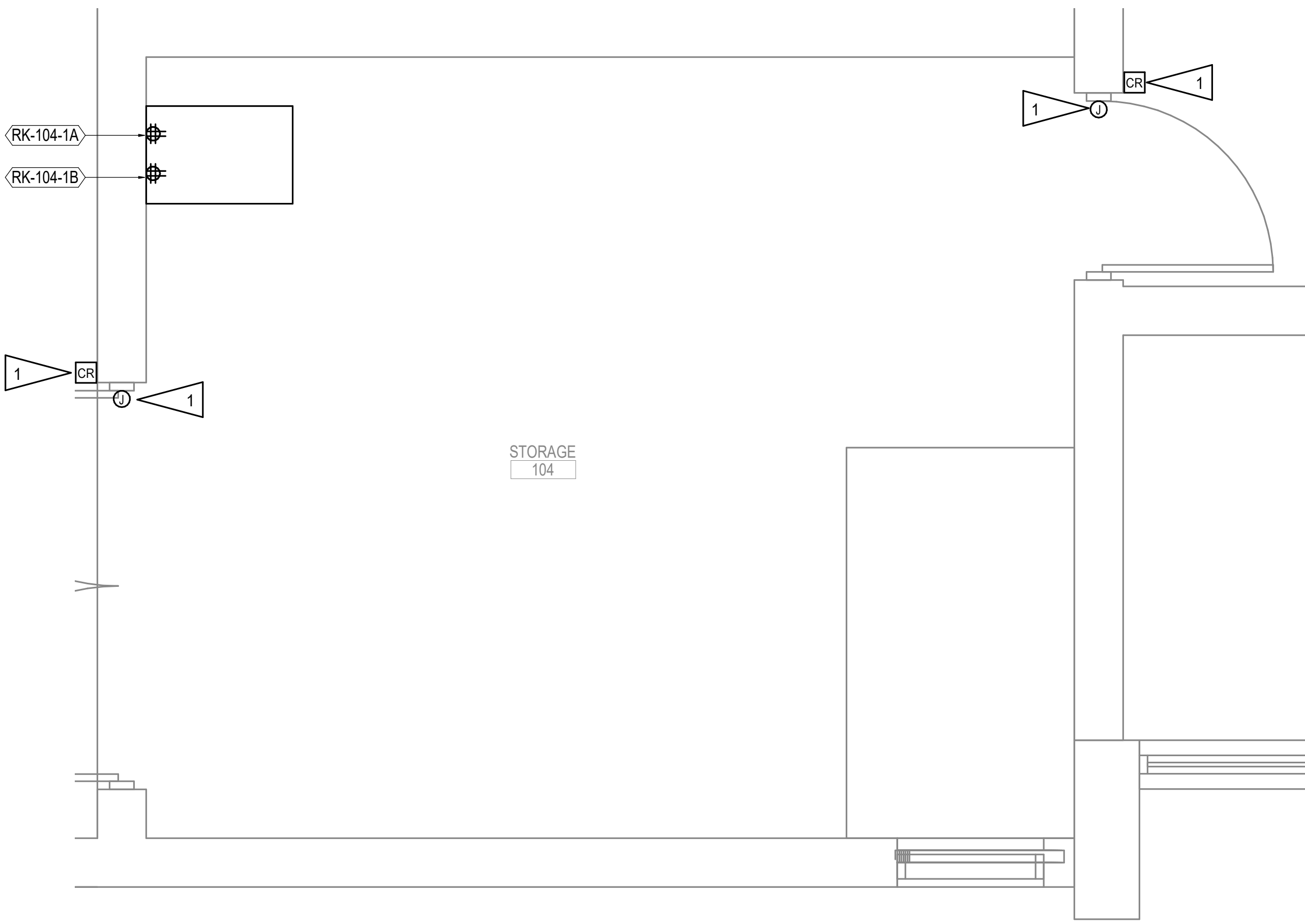
- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.

SHEET NOTES:

1. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.
2. PROVIDE NEW 20, 1P BREAKERS IN SPACE AVAILABLE IN EXISTING PANEL 'B' FOR TELECOM CABINET RECEPTACLES. PROVIDE NEW JUNCTION BOXES, CONDUIT AND WIRE AS REQUIRED.

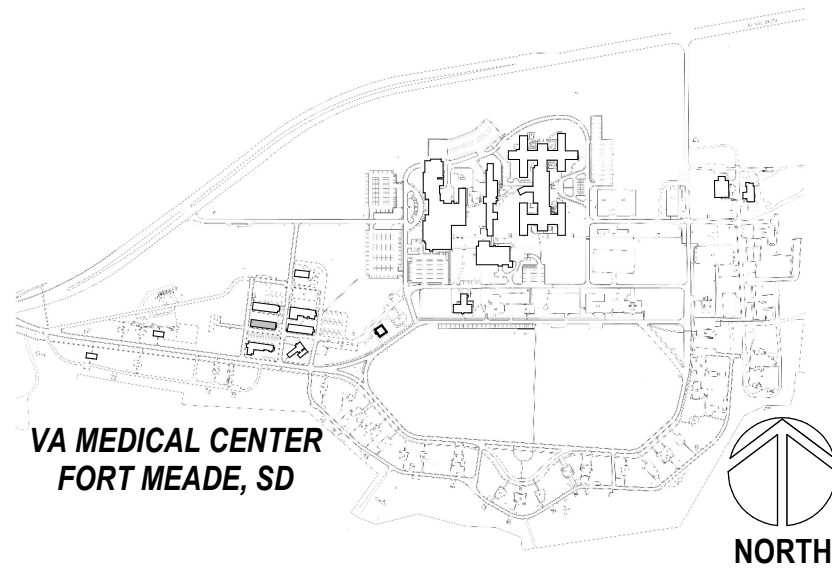


1 ELECTRICAL REMODEL PLAN - BLDG 137 FIRST FLOOR  
1/8" = 1'-0"



2 ENLARGED ROOM - 104 POWER REMODEL  
1/2" = 1'-0"

PROJECT KEY PLAN



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| Revisions: | Date: |

CONSULTANT

A/E:  
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ADAM GOODIN, PE

ARCHITECT/ENGINEER OF RECORD

MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS  
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Anchorage, AK 99503  
Phone (907) 278-0521  
Corporate No.: AECC542

STAMP

PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)

U.S. Department of Veterans Affairs

DRAWING TITLE

137-ELECTRICAL REMODEL PLANS

APPROVED: Project Director

PHASE

100% CONSTRUCTION DOCUMENTS

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

LOCATION

FORT MEADE, SOUTH DAKOTA

ISSUE DATE

05/25/2022

CHECKED BY

JAM

DRAWN BY

CK,LKA

PROJECT NUMBER

568-21-701

BUILDING NUMBER

BLDG 137

DRAWING NUMBER

137-EP-011

EQUIPMENT SCHEDULE

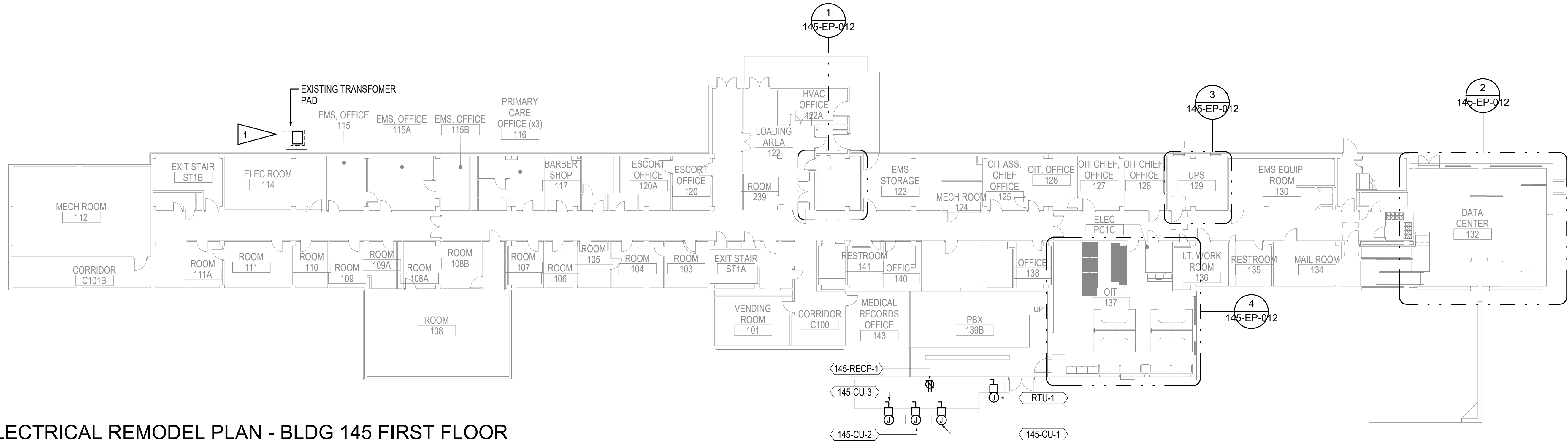
| ID TAG     | EQUIPMENT DESCRIPTION   | ELECTRICAL DATA |      |      |     |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT    | CONDUIT / CONDUCTOR SIZE          | NOTES                                       |
|------------|-------------------------|-----------------|------|------|-----|------|---|---------------------|--------------------|-----------------------------------|---------------------------------------------|
|            |                         | HP              | AMP  | WATT | VA  | VOLT | Φ |                     |                    |                                   |                                             |
| 145-IU-1   | AC INDOOR UNIT          | -               | 38   | -    | -   | 208  | 1 | X                   | 145-EQ1-T1 - 7,9   | 0.75" C, 2#6, 1#10 GND            | INTEGRAL CONTROLLER                         |
| 145-IU-2   | AC INDOOR UNIT          | -               | 38   | -    | -   | 208  | 1 | X                   | 145-EQ2-T1 - 7,9   | 0.75" C, 2#6, 1#10 GND            | INTEGRAL CONTROLLER                         |
| 145-IU-3   | AC INDOOR UNIT          | -               | 38   | -    | -   | 208  | 1 | X                   | 145-EQ3-T1 - 7,9   | 0.75" C, 2#6, 1#10 GND            | INTEGRAL CONTROLLER                         |
| 145-IU-4   | AC INDOOR UNIT          | -               | 43   | -    | -   | 208  | 1 | X                   | 145-EQ1-T1 - 15,17 | 0.75" C, 2#6, 1#10 GND            | INTEGRAL CONTROLLER                         |
| 145-CU-1   | CONDENSING UNIT         | -               | 24   | -    | -   | 208  | 1 | X                   | 145-EQ1-T1 - 11,13 | 0.75" C, 2#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-CU-2   | CONDENSING UNIT         | -               | 24   | -    | -   | 208  | 1 | X                   | 145-EQ2-T1 - 11,13 | 0.75" C, 2#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-CU-3   | CONDENSING UNIT         | -               | 24   | -    | -   | 208  | 1 | X                   | 145-EQ3-T1 - 11,13 | 0.75" C, 2#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-CU-4   | CONDENSING UNIT         | -               | 23.4 | -    | -   | 208  | 1 | X                   | 145-EQ2-T1 - 15,17 | 0.75" C, 2#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-DC-1   | DRY COOLER              | -               | 22.8 | -    | -   | 208  | 3 | X                   | M - 7,9,11         | 0.75" C, 3#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-DC-2   | DRY COOLER              | -               | 22.8 | -    | -   | 208  | 3 | X                   | M - 8,10,12        | 0.75" C, 3#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-DC-3   | DRY COOLER              | -               | 11.2 | -    | -   | 480  | 3 | X                   | TDP-1 - 8,10,12    | 0.75" C, 3#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 145-PB-1   | PRE-ECONOMIZER          | -               | 5.2  | -    | -   | 208  | 3 | X                   | M - 13,15,17       | 0.75" C, 3#12, 1#12 GND           | INTEGRAL CONTROLLER                         |
| 145-PB-2   | PRE-ECONOMIZER          | -               | 5.2  | -    | -   | 208  | 3 | X                   | M - 19,21,23       | 0.75" C, 3#12, 1#12 GND           | INTEGRAL CONTROLLER                         |
| 145-PB-3   | PRE-ECONOMIZER          | -               | 2.6  | -    | -   | 480  | 3 | X                   | TDP-1 - 13,15,17   | 0.75" C, 3#12, 1#12 GND           | INTEGRAL CONTROLLER                         |
| RTU-1      | ROOF TOP UNIT           | -               | 61   | -    | -   | 480  | 3 | X                   | TDP-1 - 7,9,11     | 1.25" C, 3#3, 1#8 GND             | INTEGRAL CONTROLLER                         |
| 145-CRAC-1 | MCR AC INDOOR UNIT      | -               | 119  | -    | -   | 208  | 3 | X                   | M - 1,3,5          | 1.5" C, 3#1/0, 1#6 GND            | INTEGRAL CONTROLLER                         |
| 145-CRAC-2 | MCR AC INDOOR UNIT      | -               | 119  | -    | -   | 208  | 3 | X                   | M - 2,4,6          | 1.5" C, 3#1/0, 1#6 GND            | INTEGRAL CONTROLLER                         |
| 145-CRAC-3 | MCR AC INDOOR UNIT      | -               | 60   | -    | -   | 480  | 3 | X                   | TDP-1 - 2,4,6      | 1" C, 3#4, 1#8 GND                | INTEGRAL CONTROLLER                         |
| ZP-122B-1A | TELECOM RACK RECEPTACLE | -               | -    | 7000 | -   | 208  | 3 | N/A                 | UPS-A - 13,15,17   | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-122B-1B | TELECOM RACK RECEPTACLE | -               | -    | 7000 | -   | 208  | 3 | N/A                 | 145-EQ1-T1 - 1,3,5 | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-229A-1A | TELECOM RACK RECEPTACLE | -               | -    | 7000 | -   | 208  | 3 | N/A                 | UPS-A - 8,10,12    | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-229A-1B | TELECOM RACK RECEPTACLE | -               | -    | 7000 | -   | 208  | 3 | N/A                 | 145-EQ2-T1 - 1,3,5 | 0.75" C, 3#10, 1#8 NEUT, 1#10 GND | PROVIDE NEMA L21-30R, SEE 5/000-I-001       |
| ZP-329-1A  | TELECOM RACK RECEPTACLE | -               | -    | 7000 | -   | 208  | 3 | N/A                 | UPS-A - 19,21,23   | 1" C, 3#10, 1#8 NEUT, 1#10 GND    | PROVIDE DIRECT CONNECTION                   |
| ZP-329-1B  | TELECOM RACK RECEPTACLE | -               | -    | 7000 | -   | 208  | 3 | N/A                 | 145-EQ3-T1 - 1,3,5 | 1" C, 3#10, 1#8 NEUT, 1#10 GND    | PROVIDE DIRECT CONNECTION                   |
| 145-RECP-1 | CONVENIENCE RECEPTACLE  | -               | -    | -    | 180 | 120  | 1 | N/A                 | 145-EQ1-T1-6       | 0.75" C, 2#10, 1#10 GND           | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |
| 145-RECP-2 | CONVENIENCE RECEPTACLE  | -               | -    | -    | 180 | 120  | 1 | N/A                 | 145-EQ2-T1-8       | 0.75" C, 2#10, 1#10 GND           | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |
| 145-RECP-3 | CONVENIENCE RECEPTACLE  | -               | -    | -    | 180 | 120  | 1 | N/A                 | 145-EQ2-T1-10      | 0.75" C, 2#10, 1#10 GND           | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |

GENERAL NOTES:

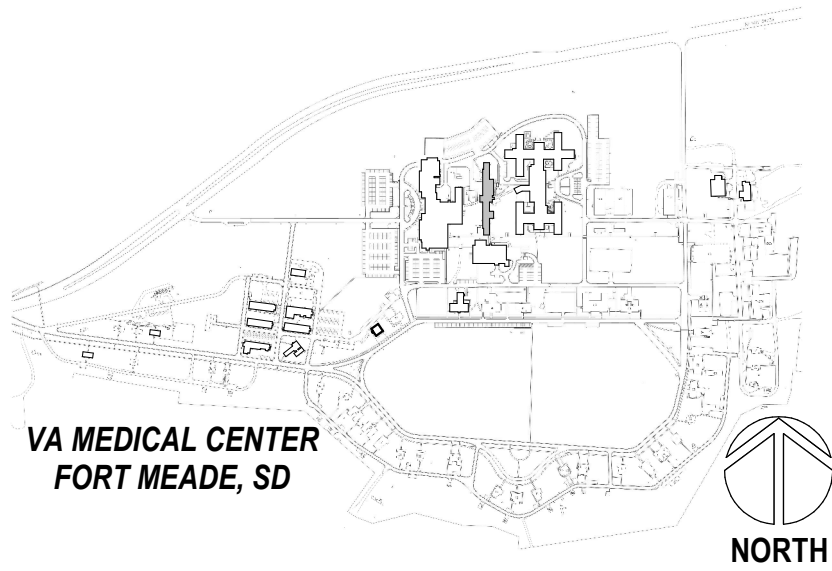
- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE LIGHTING LAYOUT WITH RACK AND CABLE TRAY LOCATIONS TO PROVIDE ILLUMINATION ON EQUIPMENT PER LIGHTING DESIGN REQUIREMENTS.
- C. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.

SHEET NOTES:

1. INTENT IS TO RE-USE EXISTING TRANSFORMER PAD, EXISTING (4) 2" CONDUIT, AND EXISTING (2) 3" CONDUIT FOR NEW UPS CIRCUIT.



PROJECT KEY PLAN



1 ELECTRICAL REMODEL PLAN - BLDG 145 FIRST FLOOR  
1/16" = 1'-0"

|            |       |
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| Revisions: | Date: |
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**GDM**  
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STATE OF ALASKA  
JEREMY A. MAXIE  
EE-113847  
REGISTERED PROFESSIONAL ENGINEER

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
145-ELECTRICAL REMODEL PLAN - FIRST FLOOR

**APPROVED:** Project Director

**PHASE**  
100% CONSTRUCTION DOCUMENTS

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
FORT MEADE, SOUTH DAKOTA

**ISSUE DATE**  
05/25/2022

**CHECKED BY**  
JAM

**DRAWN BY**  
LKA

**PROJECT NUMBER**  
568-21-701

**BUILDING NUMBER**  
BLDG 145

**DRAWING NUMBER**  
145-EP-011

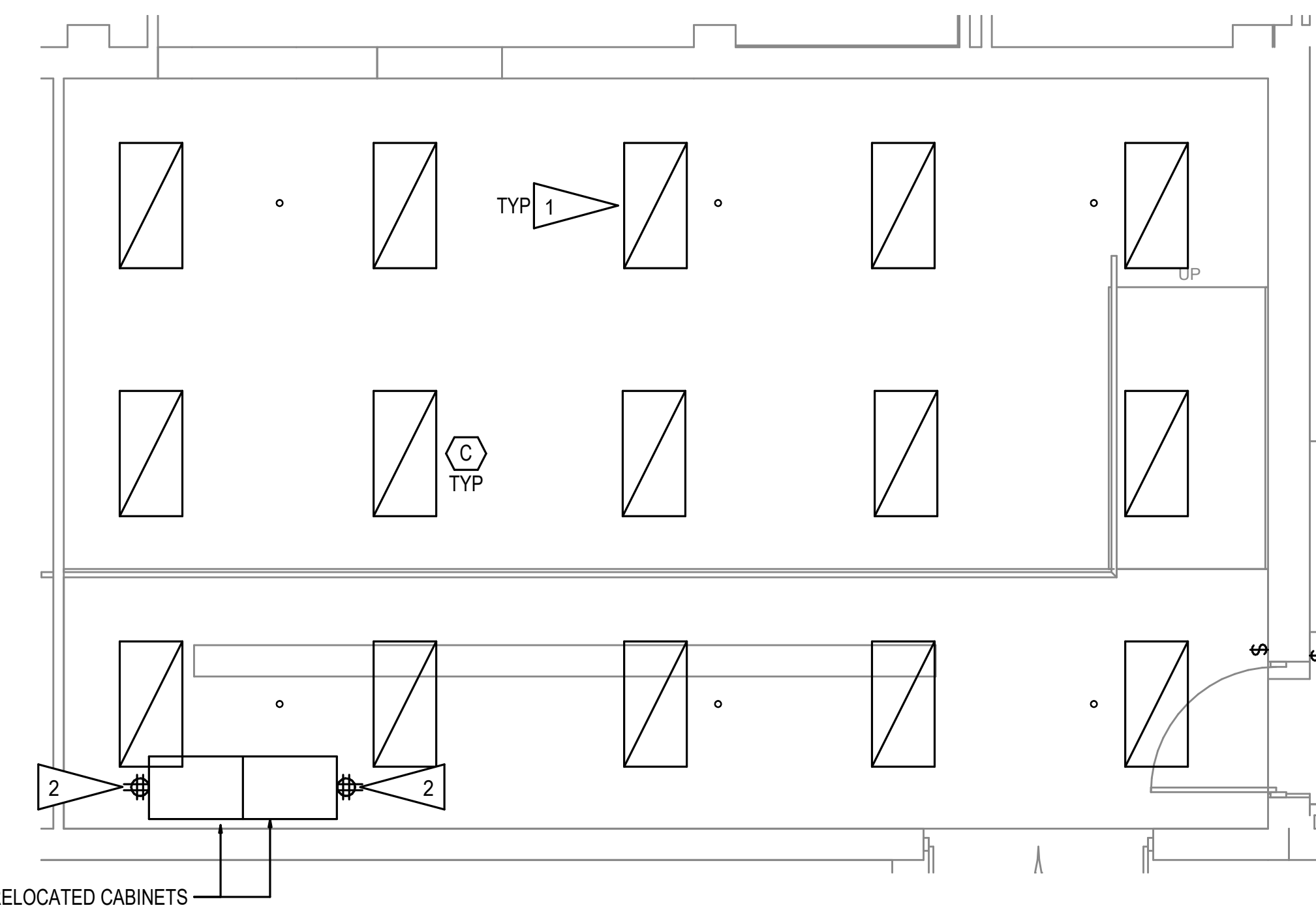
**145-EP-012**

**GENERAL NOTES:**

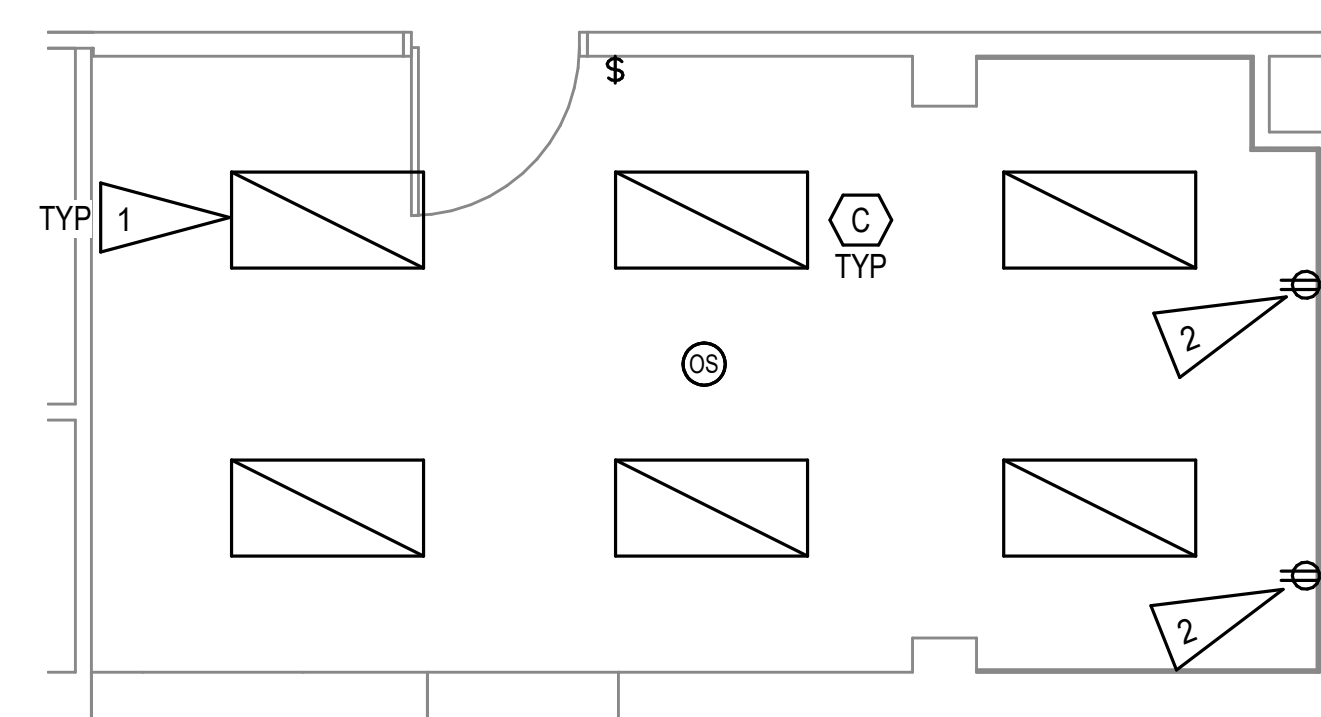
A. SEE 145-EP-011 FOR GENERAL NOTES.

**SHEET NOTES:**

1. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.
2. CONNECT TO LOCAL RECEPTACLE CIRCUIT.



1 ENLARGED ROOM - PBX ELECTRICAL REMODEL  
1/4" = 1'-0"



2 ENLARGED ROOM -139A ELECTRICAL REMODEL  
1/4" = 1'-0"

[illegible]

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ADAM GOODIN, PE



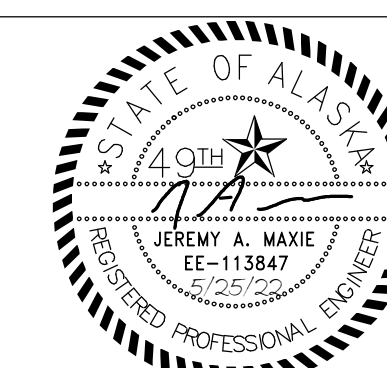
**ARCHITECT/ENGINEER OF RECORD**

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Corporate No.: AECC542

STAMP



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

DRAWING TITLE

145-ELECTRICAL REMODEL PLAN -  
FIRST FLOOR ENLARGED PLANS

APPROVED: Project Director

|       |                             |
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| PHASE | 100% CONSTRUCTION DOCUMENTS |
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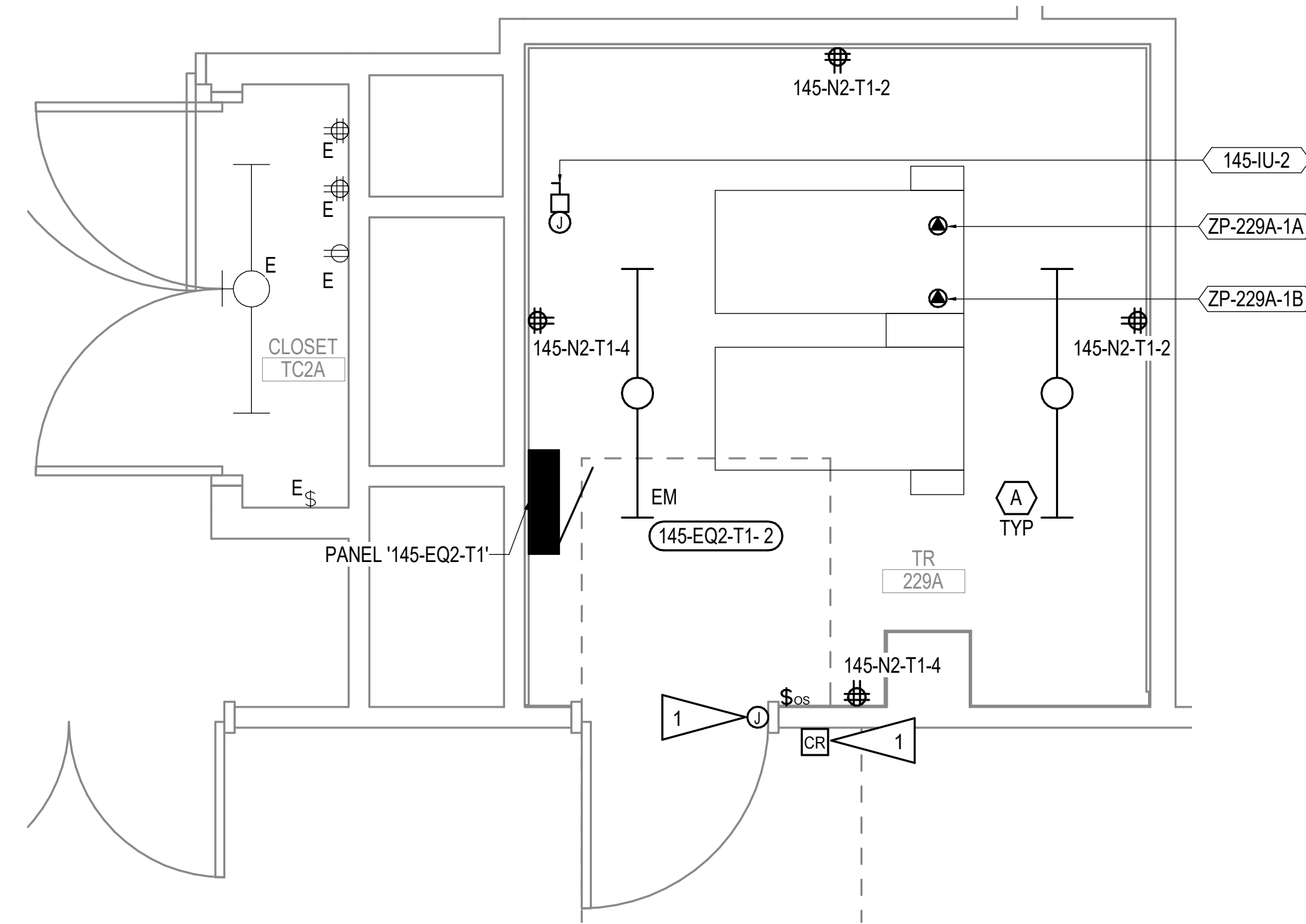
|               |                              |
|---------------|------------------------------|
| PROJECT TITLE | EHRM INFRASTRUCTURE UPGRADES |
|---------------|------------------------------|

|                          |            |          |  |
|--------------------------|------------|----------|--|
| LOCATION                 |            |          |  |
| FORT MEADE, SOUTH DAKOTA |            |          |  |
| ISSUE DATE               | CHECKED BY | DRAWN BY |  |

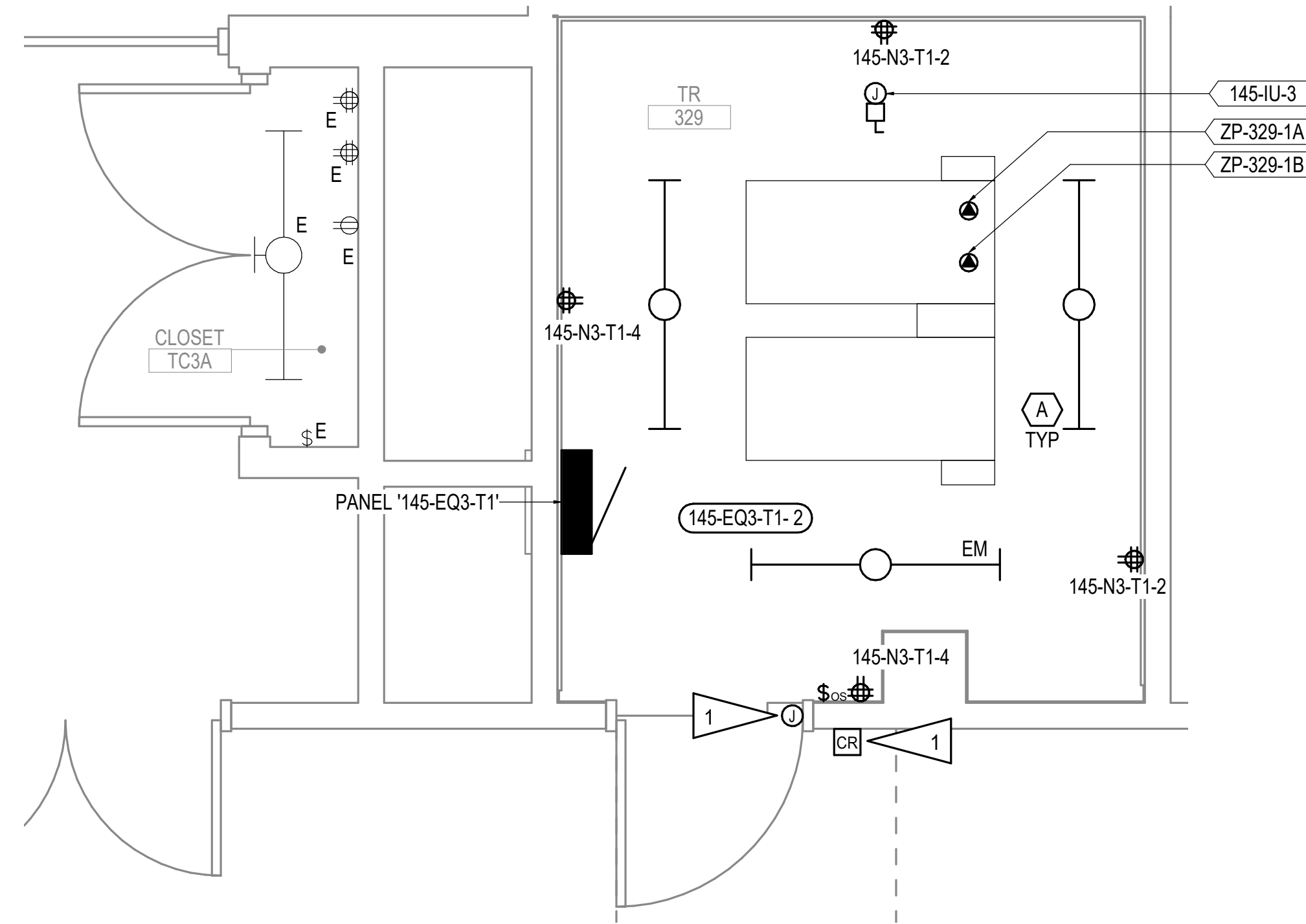
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|-----------------|------------|
| PROJECT NUMBER  | 568-21-701 |
| BUILDING NUMBER | BLDG 145   |

**DRAWING NUMBER**

**145-EP-013**



3 ENLARGED ROOM - 229A & TC2A POWER REMODEL  
1/2" = 1'-0"



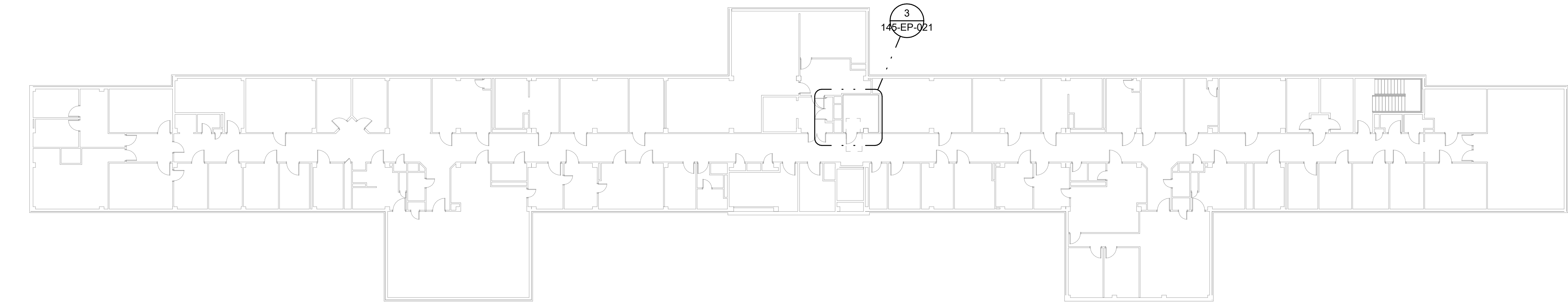
4 ENLARGED ROOM - 329 & TC3A ELECTRICAL REMODEL  
1/2" = 1'-0"

**GENERAL NOTES:**

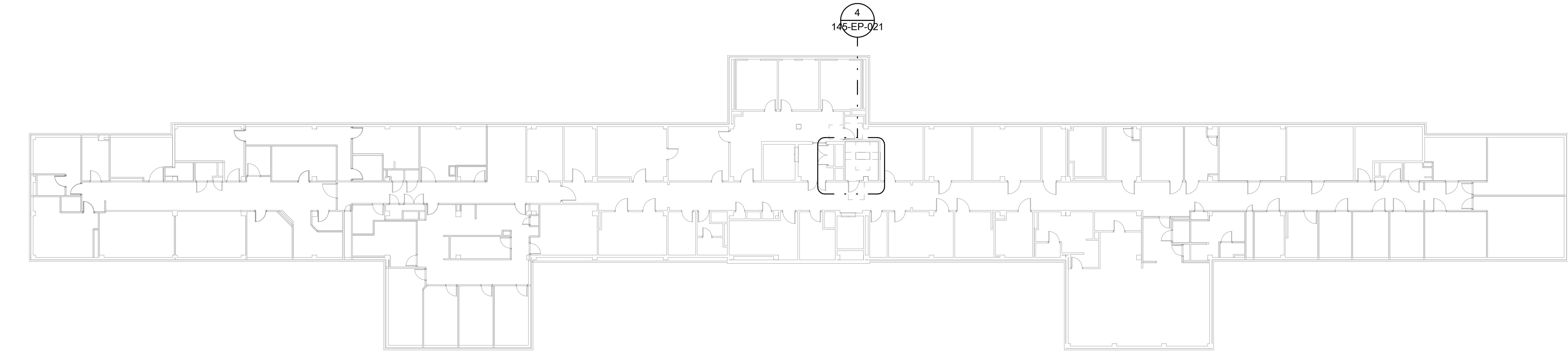
A. SEE 145-EP-011 FOR GENERAL NOTES.

**SHEET NOTES:**

1. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.

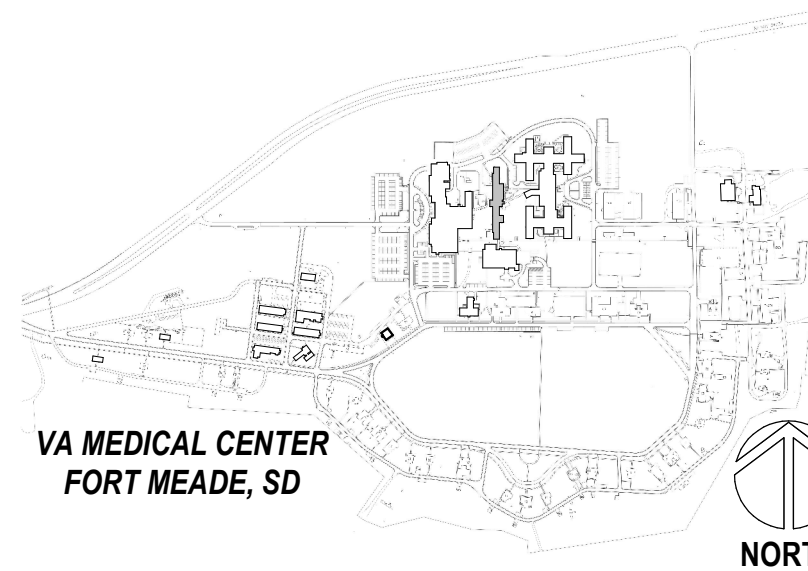


1 ELECTRICAL REMODEL PLAN - BLDG 145 - SECOND FLOOR  
1/16" = 1'-0"



2 ELECTRICAL REMODEL PLAN - BLDG 145 THIRD FLOOR  
1/16" = 1'-0"

**PROJECT KEY PLAN**



|            |       |
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| Revisions: | Date: |
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Corporate No.: AEC0542

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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
145-ELECTRICAL REMODEL PLAN - SECOND & THIRD FLOORS

**APPROVED:** Project Director

**PHASE**  
100% CONSTRUCTION DOCUMENTS

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
FORT MEADE, SOUTH DAKOTA

**ISSUE DATE**  
05/25/2022

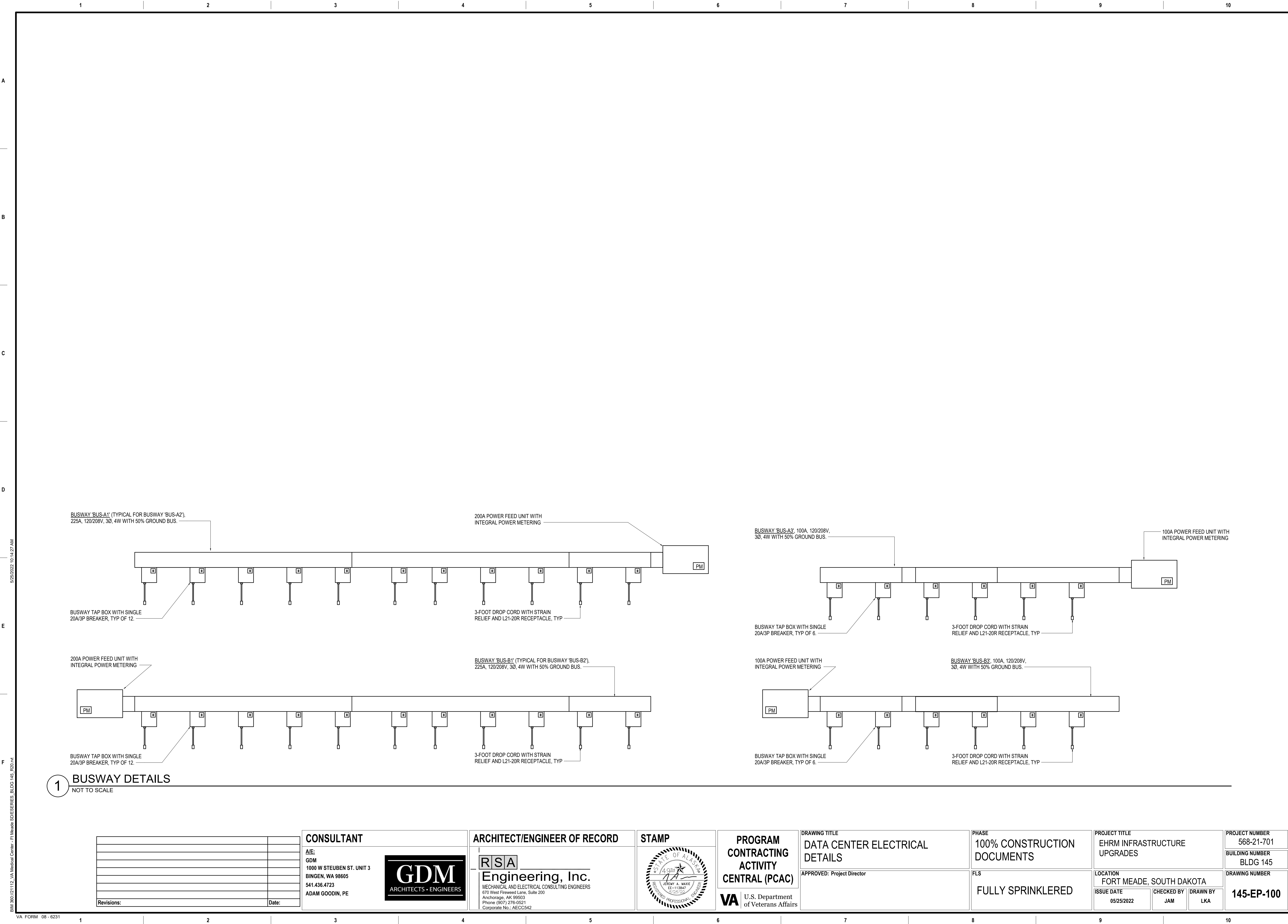
**CHECKED BY**  
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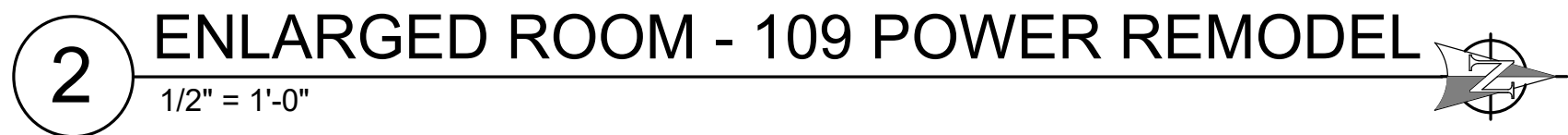
**PROJECT NUMBER**  
568-21-701

**BUILDING NUMBER**  
BLDG 145

**DRAWING NUMBER**  
145-EP-021







1. NEW TELECOM CABINET IN EXISTING LOCATION.
2. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.

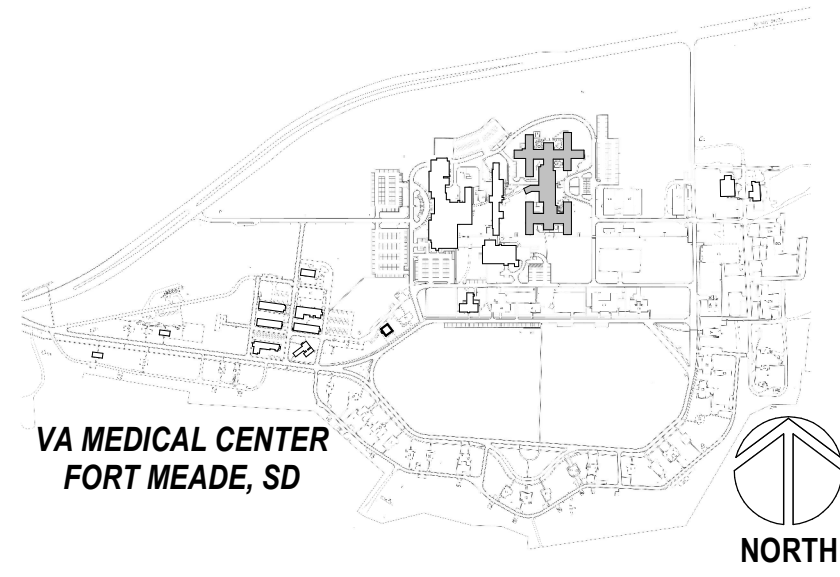


PROJECT NUMBER  
568-21-701

BUILDING NUMBER  
BLDG 147

DRAWING NUMBER  
**147-EP-011**

PROJECT KEY PLAN



EQUIPMENT SCHEDULE:

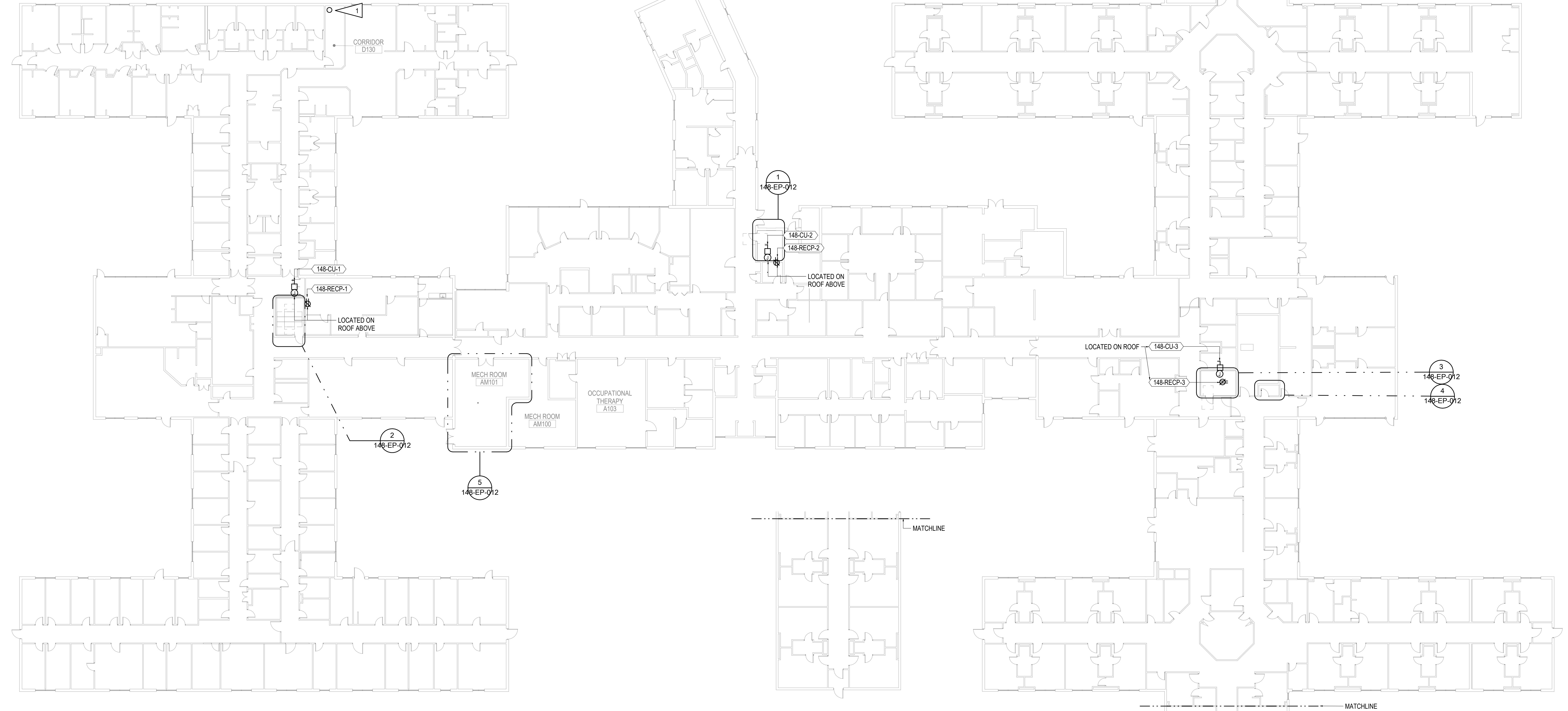
| ID TAG      | EQUIPMENT DESCRIPTION   | ELECTRICAL DATA |     |      |     |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT        | CONDUIT / CONDUCTOR SIZE           | NOTES                                       |
|-------------|-------------------------|-----------------|-----|------|-----|------|---|---------------------|------------------------|------------------------------------|---------------------------------------------|
|             |                         | HP              | AMP | WATT | VA  | VOLT | Φ |                     |                        |                                    |                                             |
| 148-IU-1    | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 148-EQ1-T1 - 19,21     | (2) 0.75" 2#6, 1#6 GND             | INTEGRAL CONTROLLER                         |
| 148-IU-2    | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 148-EQ1-T1 - 23,25     | 0.75" 2#6, 1#10 GND                | INTEGRAL CONTROLLER                         |
| 148-IU-3    | AC INDOOR UNIT          | -               | 38  | -    | -   | 208  | 1 | X                   | 148-EQ1-T1 - 27,29     | (2) 0.75" 2#6, 1#6 GND             | INTEGRAL CONTROLLER                         |
| 148-CU-1    | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 148-EQ1-T1 - 31,33     | (2) 0.75" 2#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| 148-CU-2    | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 148-EQ1-T1 - 35,37     | 0.75" 2#10, 1#10 GND               | INTEGRAL CONTROLLER                         |
| 148-CU-3    | CONDENSING UNIT         | -               | 24  | -    | -   | 208  | 1 | X                   | 148-EQ1-T1 - 39,41     | (2) 0.75" 2#10, 1#10 GND           | INTEGRAL CONTROLLER                         |
| ZP-A114A-1A | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 148-UPS1-T1 - 1,3,5    | 0.75" 3#12, 1#10 NEUT, 1#12 GND    | PROVIDE NEMA L21-20R                        |
| ZP-A114A-1B | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 148-EQ1-T1 - 1,3,5     | 0.75" 3#12, 1#10 NEUT, 1#12 GND    | PROVIDE NEMA L21-20R                        |
| ZP-C106A-1A | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 148-UPS1-T1 - 7,9,11   | (2) 0.75" 3#12, 1#10 NEUT, 1#8 GND | PROVIDE DIRECT CONNECTION                   |
| ZP-C106A-1B | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 148-EQ1-T1 - 7,9,11    | (2) 0.75" 3#12, 1#10 NEUT, 1#8 GND | PROVIDE DIRECT CONNECTION                   |
| ZP-F108-1A  | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 148-UPS1-T1 - 13,15,17 | (2) 0.75" 3#12, 1#10 NEUT, 1#8 GND | PROVIDE NEMA L21-20R                        |
| ZP-F108-1B  | TELECOM RACK RECEPTACLE | -               | -   | 7000 | -   | 208  | 3 | N/A                 | 148-EQ1-T1 - 13,15,17  | (2) 0.75" 3#12, 1#10 NEUT, 1#8 GND | PROVIDE NEMA L21-20R                        |
| 148-RECP-1  | CONVENIENCE RECEPTACLE  | -               | -   | -    | 180 | 120  | 1 | N/A                 | 148-EQ1-T1-14          | 0.75" 2#10, 1#10 GND               | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |
| 148-RECP-2  | CONVENIENCE RECEPTACLE  | -               | -   | -    | 180 | 120  | 1 | N/A                 | 148-EQ1-T1-16          | 0.75" 2#10 1#10 GND                | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |
| 148-RECP-3  | CONVENIENCE RECEPTACLE  | -               | -   | -    | 180 | 120  | 1 | N/A                 | 148-EQ1-T1-24          | 0.75" 2#10, 1#10 GND               | PROVIDE WEATHERPROOF CONVENIENCE RECEPTACLE |

GENERAL NOTES:

- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE LIGHTING LAYOUT WITH RACK AND CABLE TRAY LOCATIONS TO PROVIDE ILLUMINATION ON EQUIPMENT PER LIGHTING DESIGN REQUIREMENTS.
- C. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.

SHEET NOTES:

1. NEW 1" C FOR UPS CIRCUIT. ROUTE POWER DISTRIBUTION ABOVE CEILING TO NEW TRANSFORMER IN ROOM A101.



1 ELECTRICAL REMODEL PLAN - BLDG 148 FIRST FLOOR  
1/16" = 1'-0"

|            |       |
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| Revisions: | Date: |
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|            |       |

**CONSULTANT**

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Phone (907) 279-0521  
Corporate No.: AECC542

**STAMP**

STATE OF ALASKA  
JEREMY A. MAXIE  
E.E.-113847  
REGISTERED PROFESSIONAL ENGINEER

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
148-ELECTRICAL REMODEL PLAN - FIRST FLOOR

**APPROVED:** Project Director

**PHASE**  
100% CONSTRUCTION DOCUMENTS

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
FORT MEADE, SOUTH DAKOTA

**ISSUE DATE**  
05/25/2022

**CHECKED BY**  
JAM

**DRAWN BY**  
CK,LKA

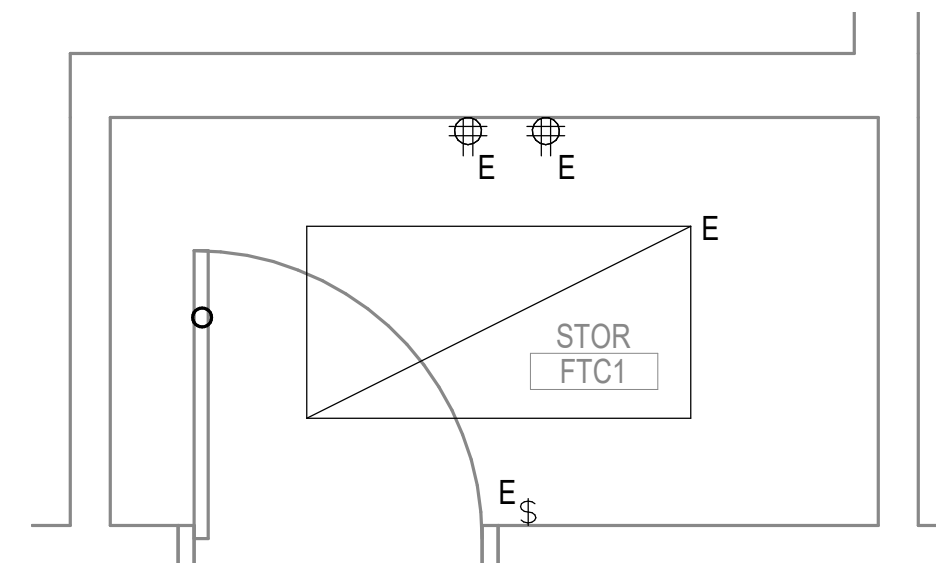
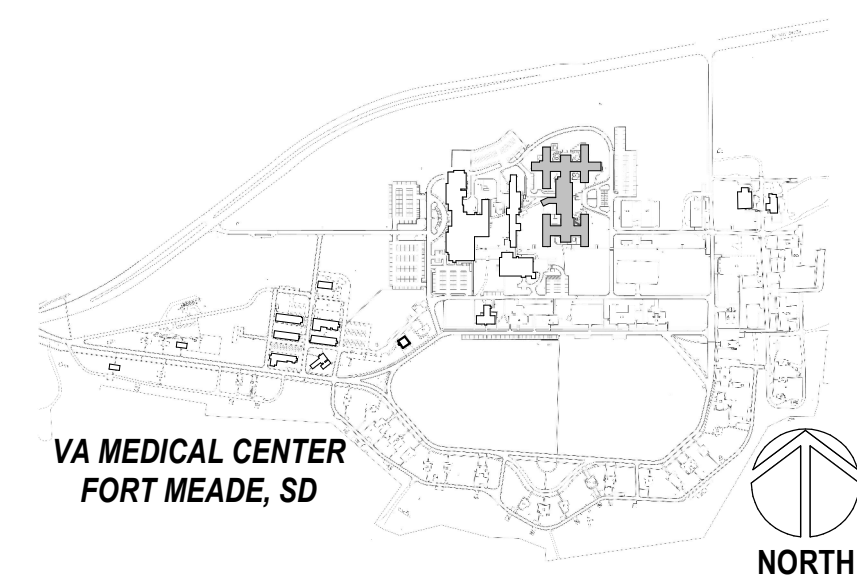
**PROJECT NUMBER**  
568-21-701

**BUILDING NUMBER**  
BLDG 148

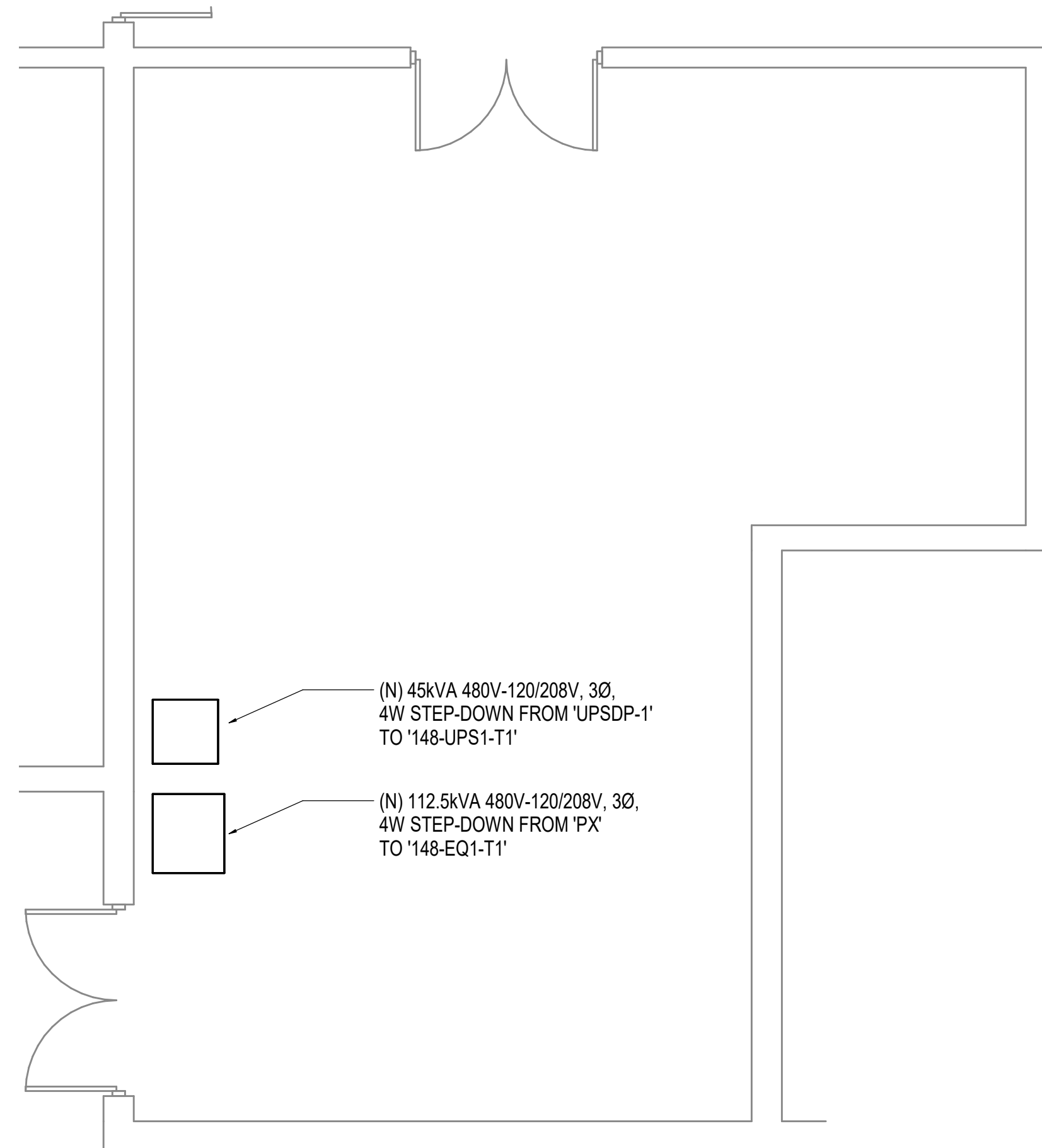
**DRAWING NUMBER**  
148-EP-011

5/25/2022 10:58:43 AM  
BIM 360/12/112 - VA Medical Center - Ft Meade - SD - SERIES - BLDG 148 - 220.rvt

## PROJECT KEY PLAN



4 ENLARGED ROOM - FTC1 ELECTRICAL REMODEL  
1/2" = 1'-0"



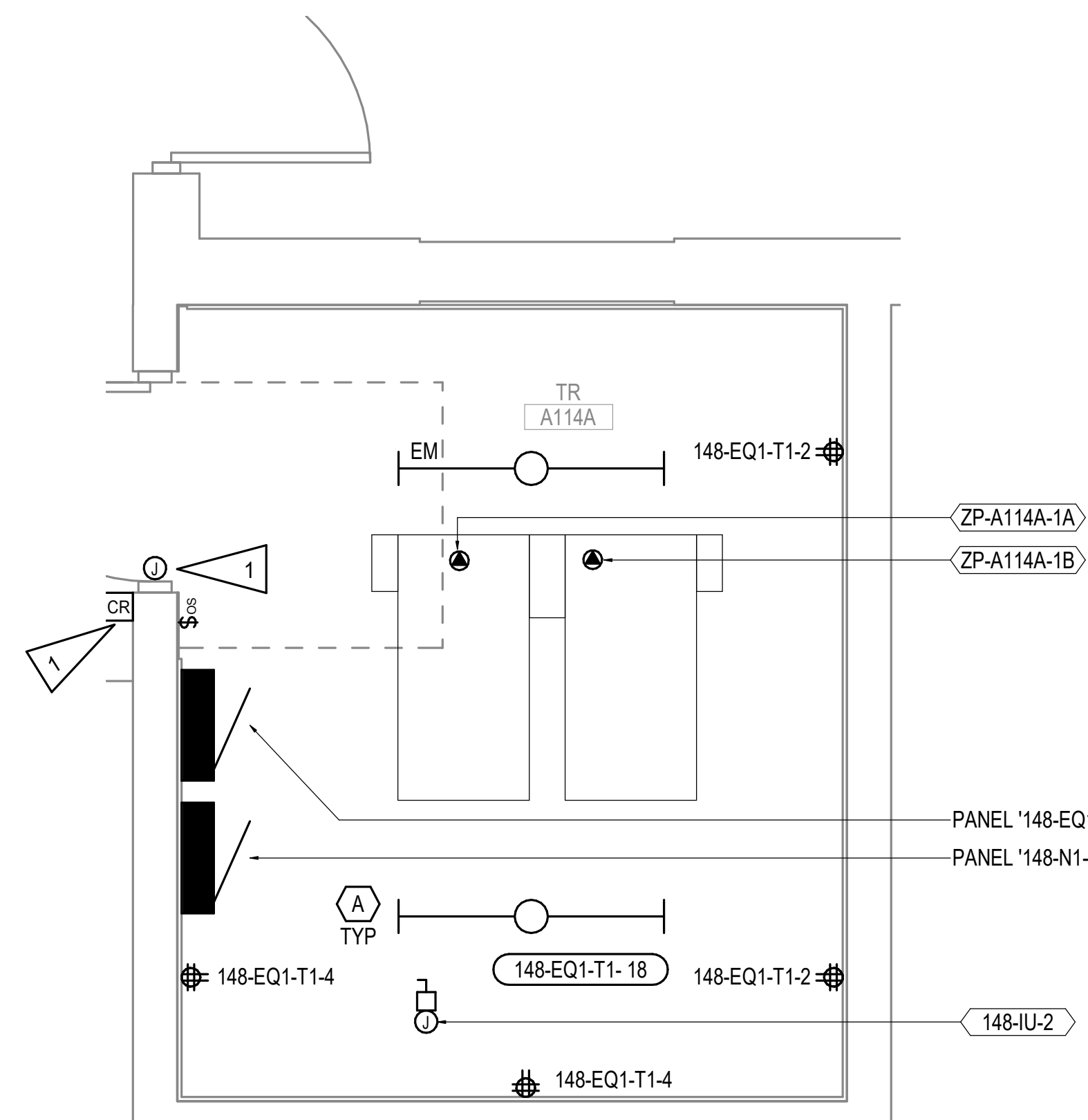
5 ENLARGED ROOM - A101 ELECTRICAL REMODEL  
1/4" = 1'-0"

**GENERAL NOTES:**

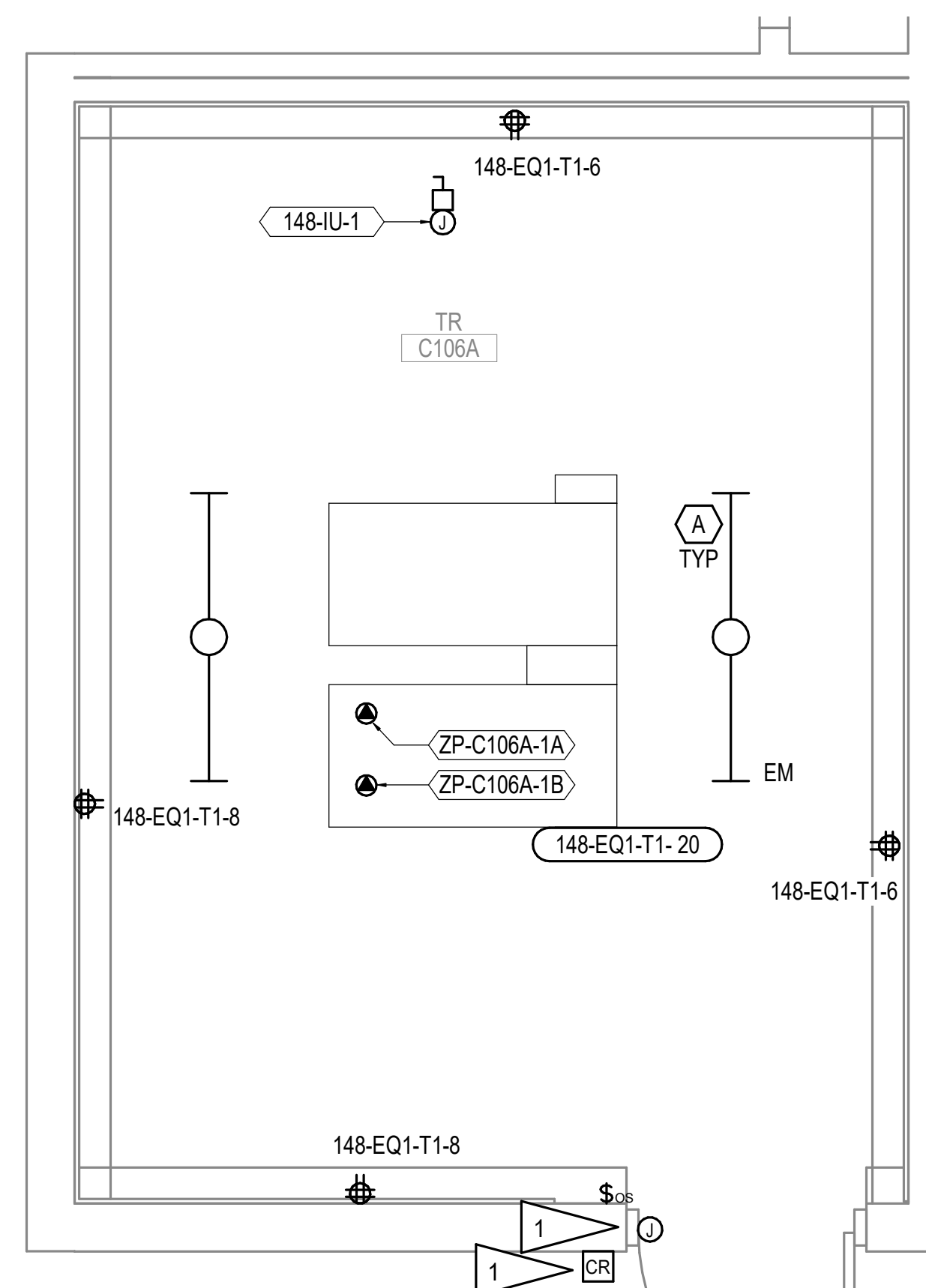
- A. SEE 148-EP-011 FOR GENERAL NOTES.
- B. SEE EQUIPMENT SCHEDULE ON SHEET 148-EP-011 FOR POWER REQUIREMENTS.

**SHEET NOTES:**

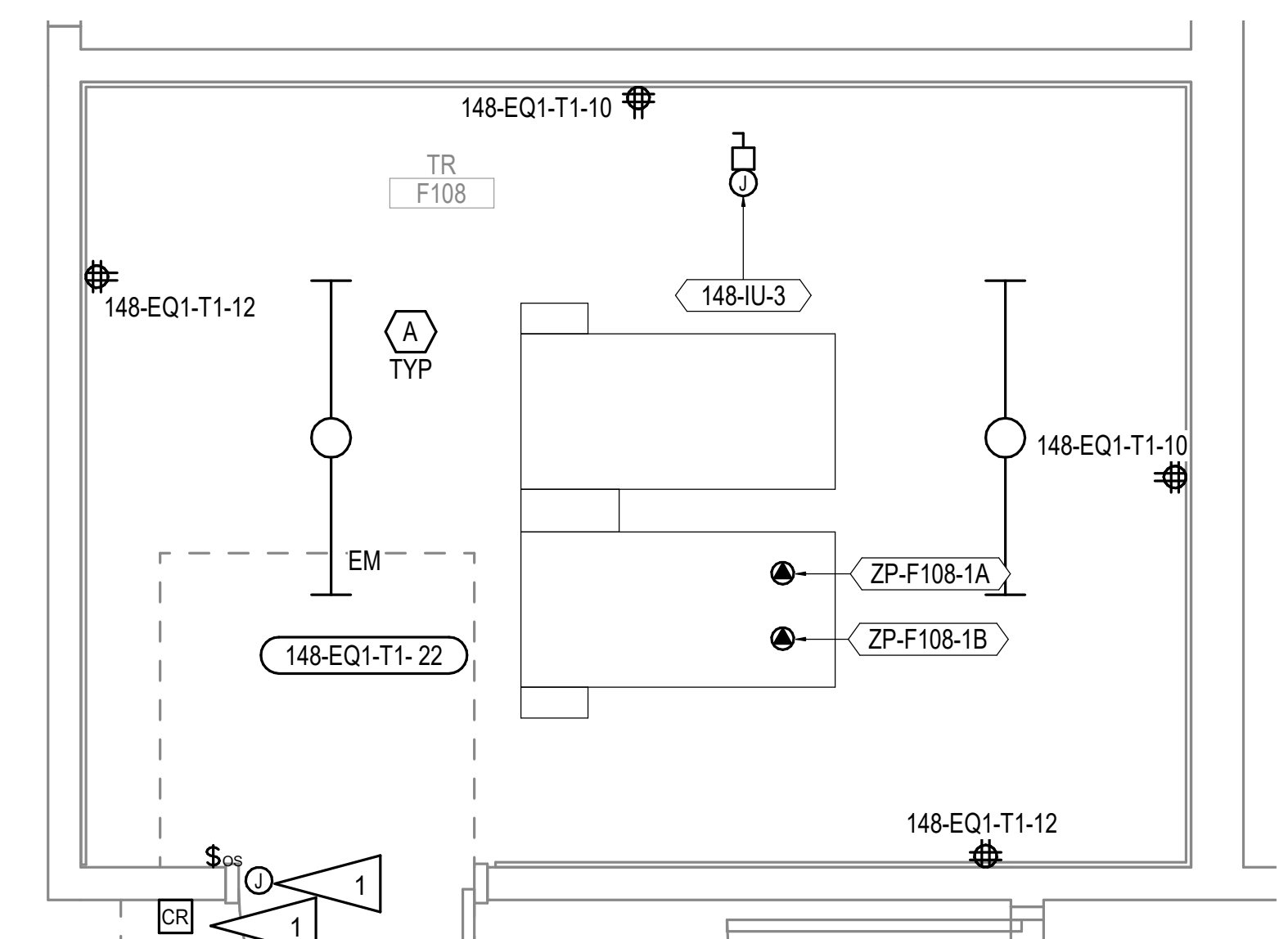
1. PROVIDE RACEWAY AND BOXES FOR ACCESS CONTROLS SYSTEM COMPONENTS. SEE EK-010 FOR TYPICAL DOOR DETAIL.



1 ENLARGED ROOM - A114A ELECTRICAL REMODEL  
1/2" = 1'-0"



2 ENLARGED ROOM - C106A ELECTRICAL REMODEL  
1/2" = 1'-0"



**3 ENLARGED ROOM - F108 ELECTRICAL REMODEL**  
1/2" = 1'-0"

[illegible]

**CONSULTANT**  
A/E:  
GDM  
1000 W STEUBEN ST. UNIT 3  
BINGEN, WA 98605  
541.436.4723  
ADAM GOODIN, PE



**ARCHITECT/ENGINEER OF RECORD**

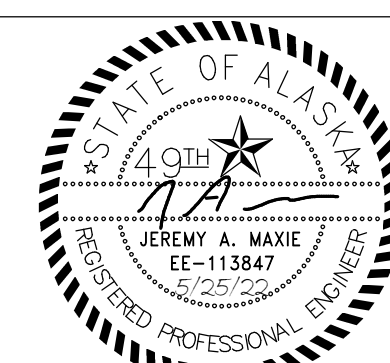
**RS&A**

**Engineering, Inc.**

MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS

670 West Fireweed Lane, Suite 200  
Anchorage, AK 99503  
Phone (907) 276-0521  
Corporate No.: AECC542

**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

|  |               |
|--|---------------|
|  | DRAWING TITLE |
|--|---------------|

148-ELECTRICAL REMODEL PLAN -  
ENLARGED ROOMS

APPROVED: Project Director

PHASE

100% CONSTRUCTION  
DOCUMENTS

|  |            |
|--|------------|
|  |            |
|  | <b>FLS</b> |

FULLY SPRINKLERED

PROJECT TITLE

## EHRM INFRASTRUCTURE UPGRADES

|  |          |
|--|----------|
|  |          |
|  | LOCATION |

FORT MEA

---

SOUTH DA

|  |  |
|--|--|
|  |  |
|  |  |

AKOTA

PROJECT NUMBER

|                             |
|-----------------------------|
| 568-21-701                  |
| BUILDING NUMBER<br>BLDG 148 |

**DRAWING NUMBER**

**148-EP-012**

**VA MEDICAL CENTER  
FORT MEADE, SD**

The site plan shows a complex of buildings including the Administration Building, Medical Building, and various specialty clinics. A large parking lot is located in the center, and a road runs along the top and left sides of the property. A north arrow is located in the bottom right corner.

VA FORM 08-6231

EQUIPMENT SCHEDULE:

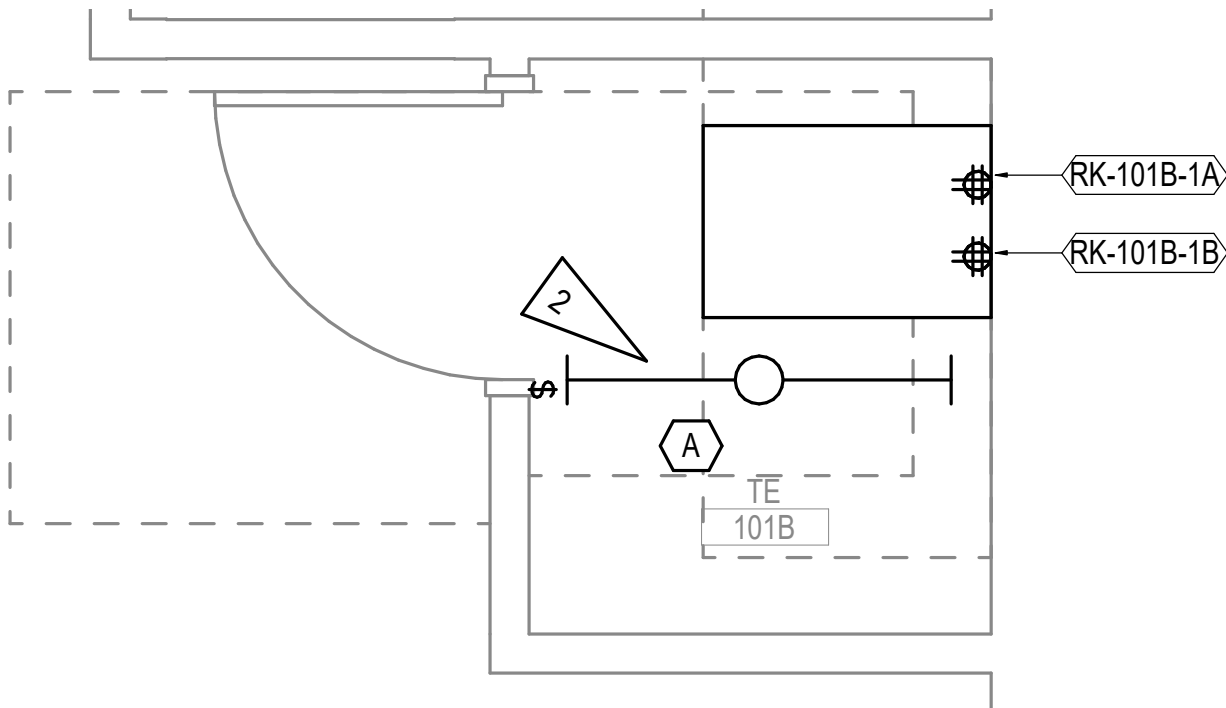
| ID TAG     | EQUIPMENT DESCRIPTION      | ELECTRICAL DATA |     |      |    |      |   | REQUIRES DISCONNECT | PANEL / CIRCUIT | CONDUIT / CONDUCTOR SIZE           | NOTES |
|------------|----------------------------|-----------------|-----|------|----|------|---|---------------------|-----------------|------------------------------------|-------|
|            |                            | HP              | AMP | WATT | VA | VOLT | Φ |                     |                 |                                    |       |
| RK-101B-1A | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | B-12            | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |
| RK-101B-1B | TELECOM CABINET RECEPTACLE | -               | -   | 1920 | -  | 120  | 1 | N/A                 | B-14            | 0.75" C, 1#12, 1#10 NEUT, 1#12 GND | -     |

GENERAL NOTES:

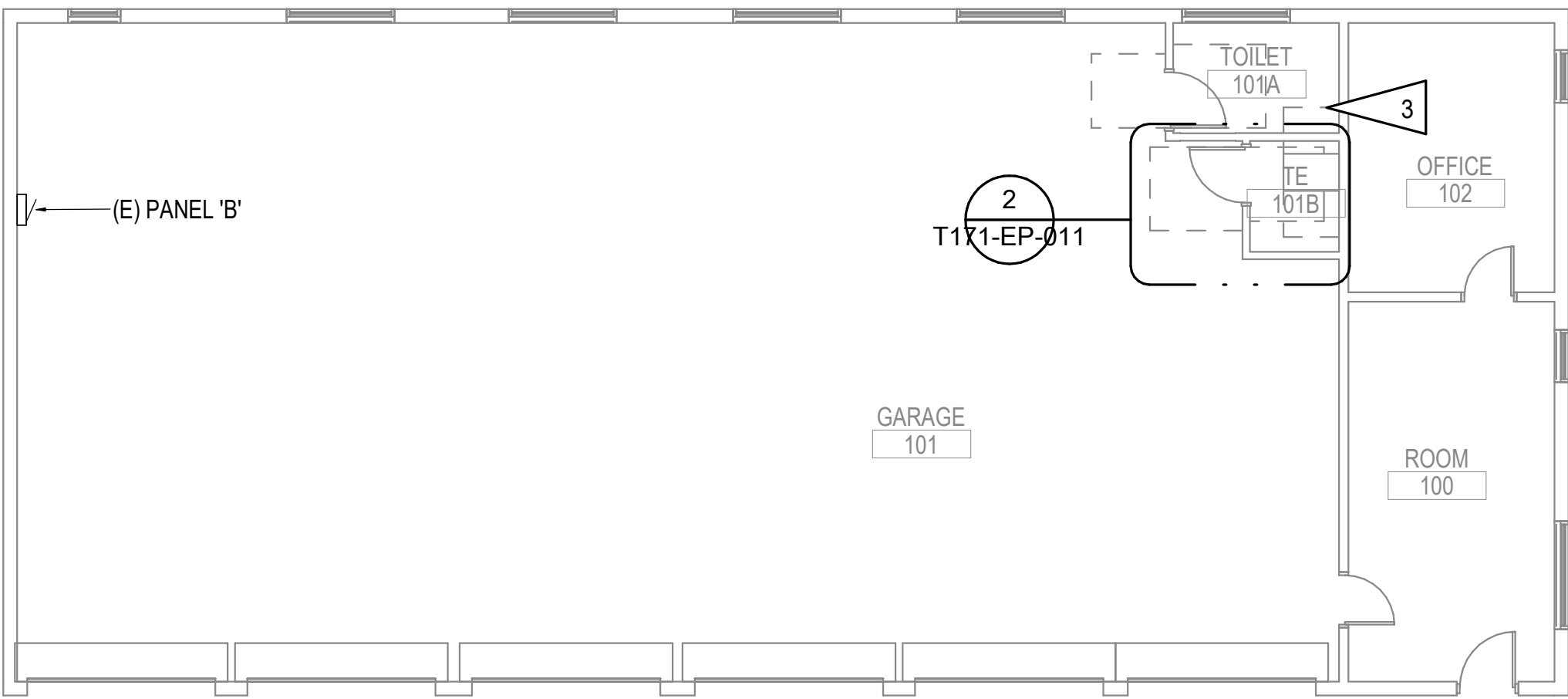
- A. SEE EQUIPMENT SCHEDULE ON THIS SHEET FOR POWER REQUIREMENTS.
- B. COORDINATE LIGHTING LAYOUT WITH RACK AND CABLE TRAY LOCATIONS TO PROVIDE ILLUMINATION ON EQUIPMENT PER LIGHTING DESIGN REQUIREMENTS.
- C. COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS AND CONDUIT/PIPE ROUTING PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. PROVIDE NEW 20A, 1P BREAKERS IN SPACE INDICATED IN EXISTING PANEL 'B' FOR TELECOM CABINET RECEPTACLES.
2. CONNECT TO EXISTING LOCAL LIGHTING CIRCUIT.
3. PROVIDE EXTENSION OF WATER HEATER FEEDER AND BRANCH CIRCUIT TO NEW LOCATION. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE AS REQUIRED.

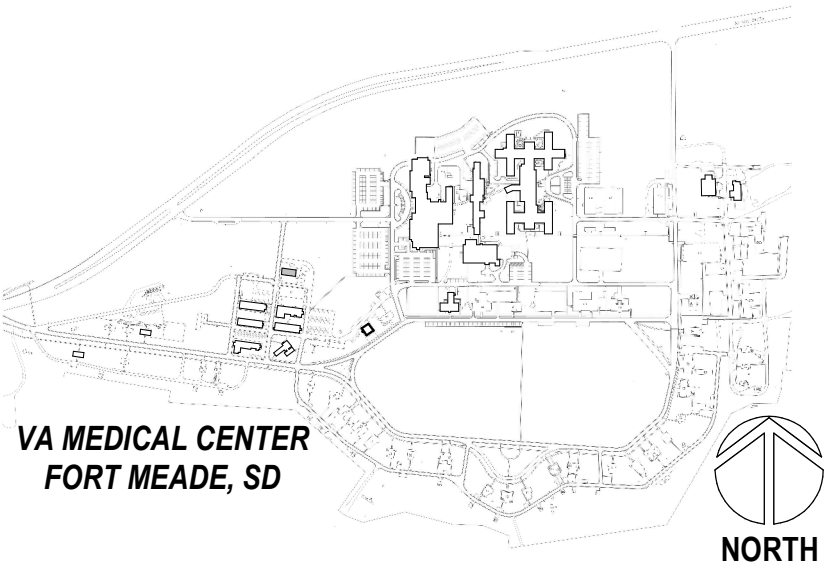


2 ENLARGED ROOM - 101B POWER REMODEL  
1/2" = 1'-0"



1 ELECTRICAL REMODEL PLAN - BLDG T171 FIRST FLOOR  
1/8" = 1'-0"

PROJECT KEY PLAN



|            |       |
|------------|-------|
|            |       |
|            |       |
|            |       |
|            |       |
|            |       |
|            |       |
| Revisions: | Date: |

**CONSULTANT**

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ADAM GOODIN, PE

**GDM**  
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**RISA**  
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Corporate No.: AEC0542

**STAMP**

STATE OF ALASKA  
JEREMY A. MAXIE  
E-113847  
REGISTERED PROFESSIONAL ENGINEER

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
T171-ELECTRICAL REMODEL PLAN - FIRST FLOOR

**APPROVED:** Project Director

**PHASE**  
100% CONSTRUCTION DOCUMENTS

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
FORT MEADE, SOUTH DAKOTA

**ISSUE DATE**  
05/25/2022

**CHECKED BY**  
JAM

**DRAWN BY**  
CK,LKA

**PROJECT NUMBER**  
568-21-701

**BUILDING NUMBER**  
BLDG T171

**DRAWING NUMBER**  
T171-EP-011

