

Image Studios - Summit Fair  
840-D NW Blue Parkway  
Lee's Summit, MO 64068

FIRE ALARM SYSTEM ADDITION

| SYMBOL                                                                            | QTY | EXISTING | MANUFACTURER  | PART NO              | DESCRIPTION                                                                            |
|-----------------------------------------------------------------------------------|-----|----------|---------------|----------------------|----------------------------------------------------------------------------------------|
|  | 1   |          | GAMEWELL FCI  | SLP-RED              | S3 SERIES PANEL W/BACKBOX, DACT-E3, RPT-E3-UTP, SLC-PM, LCD-SLP AND 7.0 A POWER SUPPLY |
|                                                                                   | 1   |          | GAMEWELL FCI  | RPT-E3-UTP           | REPEATER MODULE-TWISTED-PAIR                                                           |
|                                                                                   | 1   |          | GAMEWELL FCI  | SLP-E3               | INTELLIGENT LOOP INTERFACE-MAIN BOARD                                                  |
|                                                                                   | 1   |          | GAMEWELL FCI  | SLC-PM               | SLC LOOP EXPANDER FOR SECOND LOOP                                                      |
|                                                                                   | 1   |          | GAMEWELL FCI  | DACT-E3              | DIGITAL ALARM COMMUNICATOR TRANSMITTER                                                 |
|  | 1   |          | GAMEWELL FCI  | FLPS-7-RB            | 7 AMP POWER SUPPLY                                                                     |
|                                                                                   | 1   |          | NOTIFIER      | FCPS-24S6            | 6-AMP, 24-VOLT POWER SUPPLY                                                            |
|  | 1   |          | NOTIFIER      | FCPS-24S6 MAIN BOARD | FIRE ALARM POWER SUPPLY MAIN BOARD                                                     |
|                                                                                   | 1   |          | GAMEWELL FCI  | LCD-SLP              | LCD TOUCHSCREEN DISPLAY                                                                |
|                                                                                   | 1   |          | GAMEWELL FCI  | LCD-SLP MAIN BOARD   | ANNUNCIATOR DISPLAY, MAIN BOARD                                                        |
|  | 4   |          | GAMEWELL FCI  | RTS151KEY            | REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEADS, KEY RESET                          |
|  | 2   |          | GAMEWELL FCI  | MS-7AF               | VELOCITI ADDRESSABLE DOUBLE ACTION STATION                                             |
|  | 4   |          | GAMEWELL FCI  | DNR W/ASD-PL3R       | INTELLIGENT DUCT DETECTOR HOUSING, NON-RELAY W/ASD-PL3R                                |
|  | 5   |          | SYSTEM SENSOR | P2RL                 | 2-WIRE, HORN STROBE, RED - White                                                       |
|  | 4   |          | SYSTEM SENSOR | SWL                  | STROBE, WHITE                                                                          |

| DRAWING INDEX |                                      |
|---------------|--------------------------------------|
| 1             | TITLE SHEET, BATTERY CALCULATIONS    |
| 2             | FIRE ALARM PLAN                      |
| 3             | RISER DIAGRAM, MATRIX, VOLTAGE DROPS |
| 4             | MOUNTING HEIGHTS                     |
|               |                                      |
|               |                                      |
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|               |                                      |

APPLICABLE BUILDING CODES:

2018 INTERNATIONAL BUILDING CODE  
2018 INTERNATIONAL FIRE CODE  
2016 NFPA 72

SCOPE OF WORK:  
Tenant space remodel for Image Studios

- ☐ APPROVED
- ☒ APPROVED AS CORRECTED
- ☐ REVISE AND RESUBMIT
- ☐ REJECTED
- ☐ FOR INFORMATION ONLY



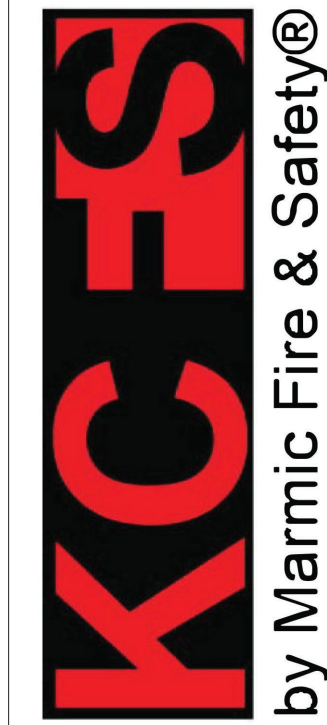
GOEBEL MITTS  
CONSTRUCTION  
DREAM, DESIGN, BUILD

BY Ryan Thomas

DATE 6/14/2024

| BATTERY CALCULATION                                                            |                                                                                     |                        |                      |                                                   |                  |                 |           |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|----------------------|---------------------------------------------------|------------------|-----------------|-----------|
| (SECONDARY POWER SOURCE REQUIREMENTS)                                          |                                                                                     |                        |                      |                                                   |                  |                 |           |
| PANEL POWER SUPPLY MAX CURRENT = 6A                                            |                                                                                     |                        |                      | TOTAL USED CAPACITY (IN ALARM) = 1.693A (28.22 %) |                  |                 |           |
| PANEL COMPONENTS                                                               |                                                                                     | STANDBY CURRENT (AMPS) |                      | SECONDARY ALARM CURRENT (AMPS)                    |                  |                 |           |
|                                                                                |                                                                                     | QTY                    | PART NO.             | DESCRIPTION                                       | CURRENT DRAW (A) | TOTAL (A)       | TOTAL     |
|                                                                                |                                                                                     | 1                      | FCPS-24S6 MAIN BOARD | Fire Alarm Power Supply Main Board                | 0.091            | 0.145           | 0.145     |
| CIRCUIT                                                                        | SYMBOL                                                                              | QTY                    | PART NO              | DESCRIPTION                                       | CURRENT DRAW (A) | TOTAL (A)       | TOTAL (A) |
| N2                                                                             |  | 16                     | SWL                  | Strobe, White 15cd                                | 0                | 0.06            | 0.96      |
| N3                                                                             |  | 2                      | P2RL                 | 2-Wire, Horn Strobe, Red-White 15cd               | 0                | 0.054           | 0.108     |
|                                                                                |  | 8                      | SWL                  | Strobe, White 15cd                                | 0                | 0.06            | 0.48      |
| TOTAL STANDBY (A)                                                              |                                                                                     |                        |                      |                                                   | 0.091            | TOTAL ALARM (A) | 1.693     |
| REQUIRED STANDBY TIME = 24 HOURS                                               |                                                                                     |                        |                      |                                                   |                  |                 |           |
| REQUIRED ALARM TIME = 5 MINUTES                                                |                                                                                     |                        |                      |                                                   |                  |                 |           |
| SECONDARY STANDBY LOAD (A)                                                     |                                                                                     |                        |                      | 0.091                                             | 24               | 2.18            |           |
| SECONDARY ALARM LOAD (A)                                                       |                                                                                     |                        |                      | 1.693                                             | 0.08             | 0.14            |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)                                         |                                                                                     |                        |                      |                                                   |                  | 2.33            |           |
| DERATING FACTOR                                                                |                                                                                     |                        |                      |                                                   |                  | 1.2             |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)                                        |                                                                                     |                        |                      |                                                   |                  | 2.79            |           |
| PROVIDE (2) 12V 7AH BATTERIES                                                  |                                                                                     |                        |                      |                                                   |                  |                 |           |
| *BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION. |                                                                                     |                        |                      |                                                   |                  |                 |           |

| BATTERY CALCULATION                                                            |                                                                                       |                        |                |                                                         |                  |                 |           |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------|----------------|---------------------------------------------------------|------------------|-----------------|-----------|
| (SECONDARY POWER SOURCE REQUIREMENTS)                                          |                                                                                       |                        |                |                                                         |                  |                 |           |
| PANEL COMPONENTS                                                               |                                                                                       | STANDBY CURRENT (AMPS) |                | SECONDARY ALARM CURRENT (AMPS)                          |                  |                 |           |
|                                                                                |                                                                                       | QTY                    | PART NO.       | DESCRIPTION                                             | CURRENT DRAW (A) | TOTAL (A)       | TOTAL     |
|                                                                                |                                                                                       | 1                      | DACT-E3        | Digital Alarm Communicator Transmitter                  | 0.018            | 0.018           | 0.018     |
|                                                                                |                                                                                       | 1                      | FLPS-7-RB      | 7 amp Power Supply                                      | 0                | 0               | 0         |
|                                                                                |                                                                                       | 1                      | RPT-E3-UTP     | Repeater Module-Twisted-pair                            | 0.016            | 0.016           | 0.017     |
|                                                                                |                                                                                       | 1                      | SLC-PM         | SLC LOOP EXPANDER FOR SECOND LOOP                       | 0.014            | 0.014           | 0.014     |
|                                                                                |                                                                                       | 1                      | SLP-E3         | Intelligent Loop Interface-Main Board                   | 0.1              | 0.1             | 0.18      |
| CIRCUIT                                                                        | SYMBOL                                                                                | QTY                    | PART NO        | DESCRIPTION                                             | CURRENT DRAW (A) | TOTAL (A)       | TOTAL (A) |
| ANN                                                                            |  | 1                      | LCD-SLP        | LCD Touchscreen Display                                 | 0                | 0               | 0         |
| L1                                                                             |  | 4                      | DNR w/ASD-PL3R | Intelligent duct detector housing, non-relay w/ASD-PL3R | 0.0002           | 0.0008          | 0.018     |
|                                                                                |  | 2                      | MS-7AF         | Velociti addressable double action station              | 0.0003           | 0.0006          | 0.014     |
| N1                                                                             |  | 2                      | P2RL           | 2-Wire, Horn Strobe, Red-White 15cd                     | 0                | 0               | 0.054     |
|                                                                                |  | 11                     | SWL            | Strobe, White 15cd                                      | 0                | 0               | 0.66      |
| N4                                                                             |  | 1                      | P2RL           | 2-Wire, Horn Strobe, Red-White 15cd                     | 0                | 0               | 0.054     |
|                                                                                |  | 9                      | SWL            | Strobe, White 15cd                                      | 0                | 0               | 0.54      |
| TOTAL STANDBY (A)                                                              |                                                                                       |                        |                |                                                         | 0.1494           | TOTAL ALARM (A) | 1.623     |
| REQUIRED STANDBY TIME = 24 HOURS                                               |                                                                                       |                        |                |                                                         |                  |                 |           |
| REQUIRED ALARM TIME = 5 MINUTES                                                |                                                                                       |                        |                |                                                         |                  |                 |           |
| SECONDARY STANDBY LOAD (A)                                                     |                                                                                       |                        |                | 0.1494                                                  | 24               | 3.59            |           |
| SECONDARY ALARM LOAD (A)                                                       |                                                                                       |                        |                | 1.623                                                   | 0.08             | 0.14            |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)                                         |                                                                                       |                        |                |                                                         |                  | 3.72            |           |
| DERATING FACTOR                                                                |                                                                                       |                        |                |                                                         |                  | 1.2             |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)                                        |                                                                                       |                        |                |                                                         |                  | 4.47            |           |
| *RECOMMENDED BATTERY SIZES NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION. |                                                                                       |                        |                |                                                         |                  |                 |           |
| *BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION. |                                                                                       |                        |                |                                                         |                  |                 |           |



| REVISION | DATE | NUMBER | DESCRIPTION |
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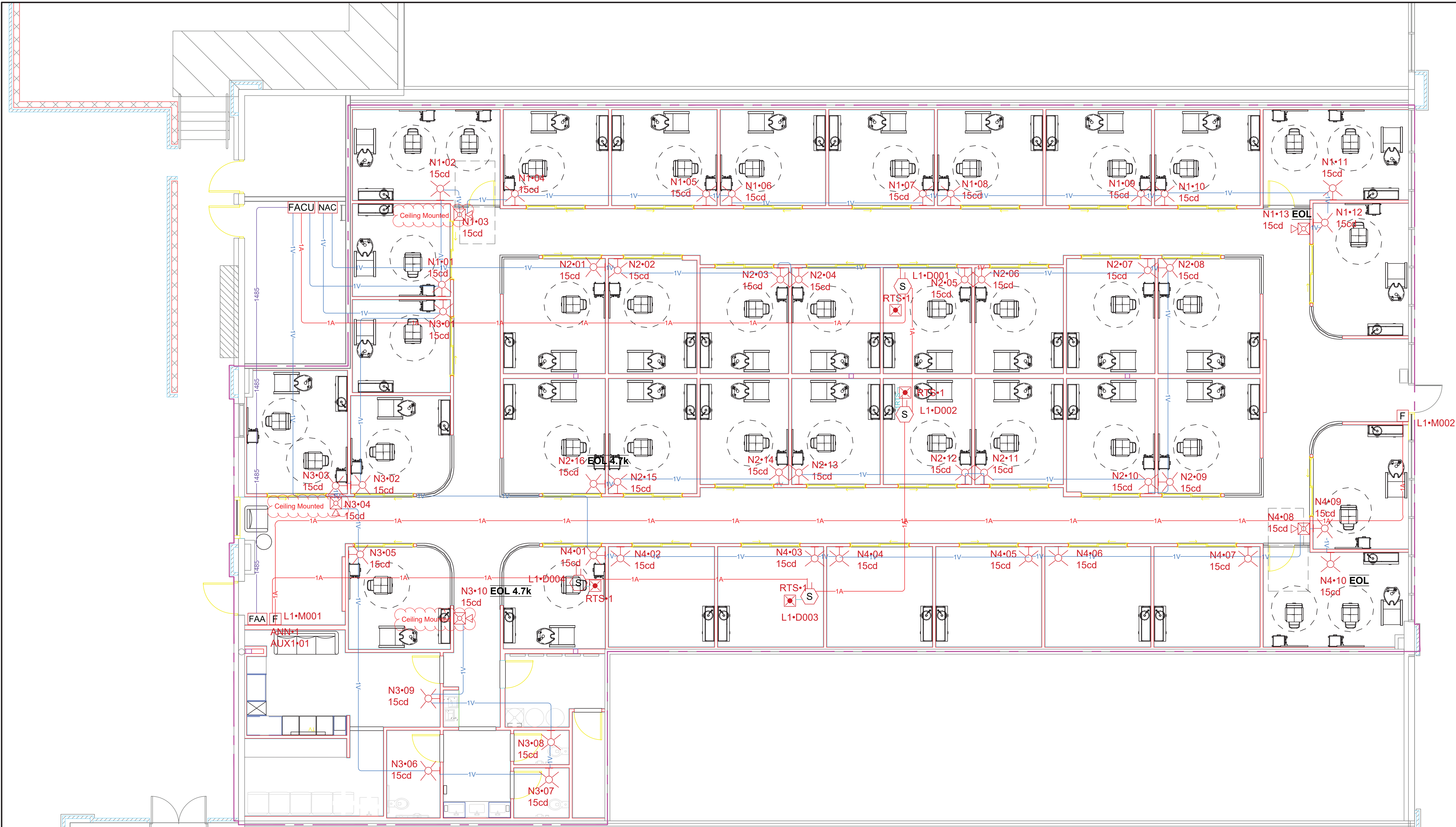
|                 |                         |                 |
|-----------------|-------------------------|-----------------|
| Date: 5/21/2024 | Scale: 3/16" = 10"      | Project Number: |
| Designed by:    | Drawn by: Phillip Young | Approved By:    |

|                                                                                     |
|-------------------------------------------------------------------------------------|
| KCFS by MARMIC FIRE & SAFETY<br>1880 E. 38th<br>Grandview, MO 64030<br>913-780-5237 |
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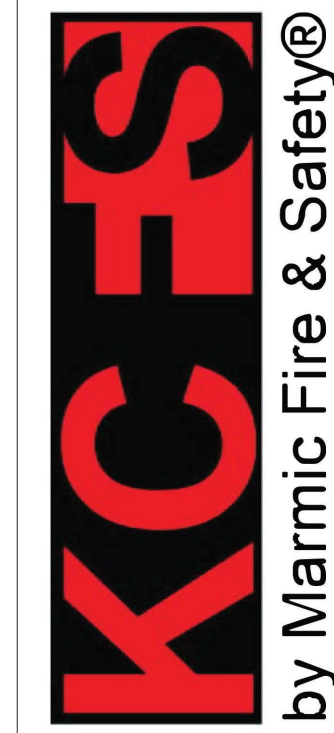
|                                                                                |
|--------------------------------------------------------------------------------|
| Image Studios - Summit Fair<br>840-D NW Blue Parkway<br>Lee's Summit, MO 64068 |
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|                                                         |
|---------------------------------------------------------|
| SHEET<br>REFERENCE<br>NUMBER:<br>1<br>TOTAL SHEETS<br>4 |
|---------------------------------------------------------|





MAIN LEVEL FLOOR PLAN  
SCALE: 1" = 6'-0"



| REVISION | DATE | APPROVED |
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|------------------------------|-----------------|
| Designed by:                 | 5/22/2024       |
| Drawn by:                    | 3/16" = 10"     |
| Approved by:                 | Project Number: |
| KCFS by MARMIC FIRE & SAFETY |                 |
| 1403 W. Blue Springs Blvd.   |                 |
| Grain Valley, MO 64030       |                 |
| 913-780-5237                 |                 |

Images Studios - Summit Fair  
1403 W. Blue Springs Blvd.  
Lees Summit MO 64086

|                                                         |
|---------------------------------------------------------|
| SHEET<br>REFERENCE<br>NUMBER:<br>2<br>TOTAL SHEETS<br>4 |
|---------------------------------------------------------|





## SYSTEM INPUTS

## N1 POINT-TO-POINT REPORT

#### N4 POINT-TO-POINT REPORT

## N2 POINT-TO-POINT REPORT

### N3 POINT-TO-POINT REPORT

by Marmic Fire & Safety®

REVISIONDate: \_\_\_\_\_

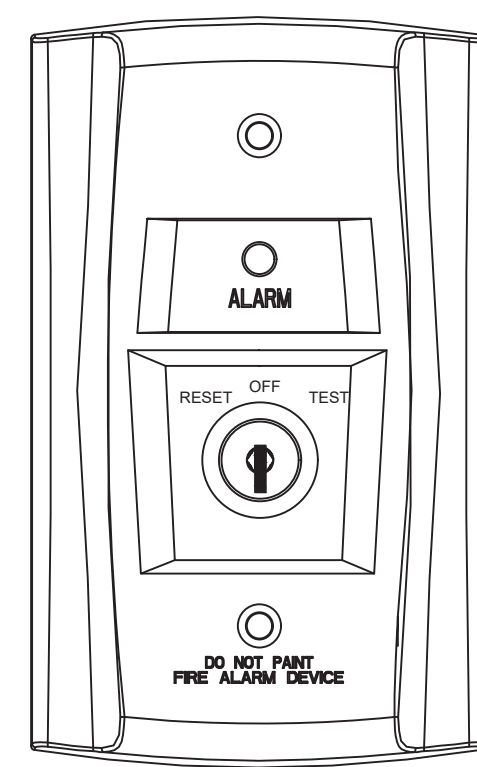
**F & C ARTV**

moderate to high risk of bias

3  
TOTAL SHEETS  
4

06/19/24





FROM PREVIOUS APPLIANCE OR PANEL

(+) (-)

(+) (-)

TO NEXT APPLIANCE OR EOL

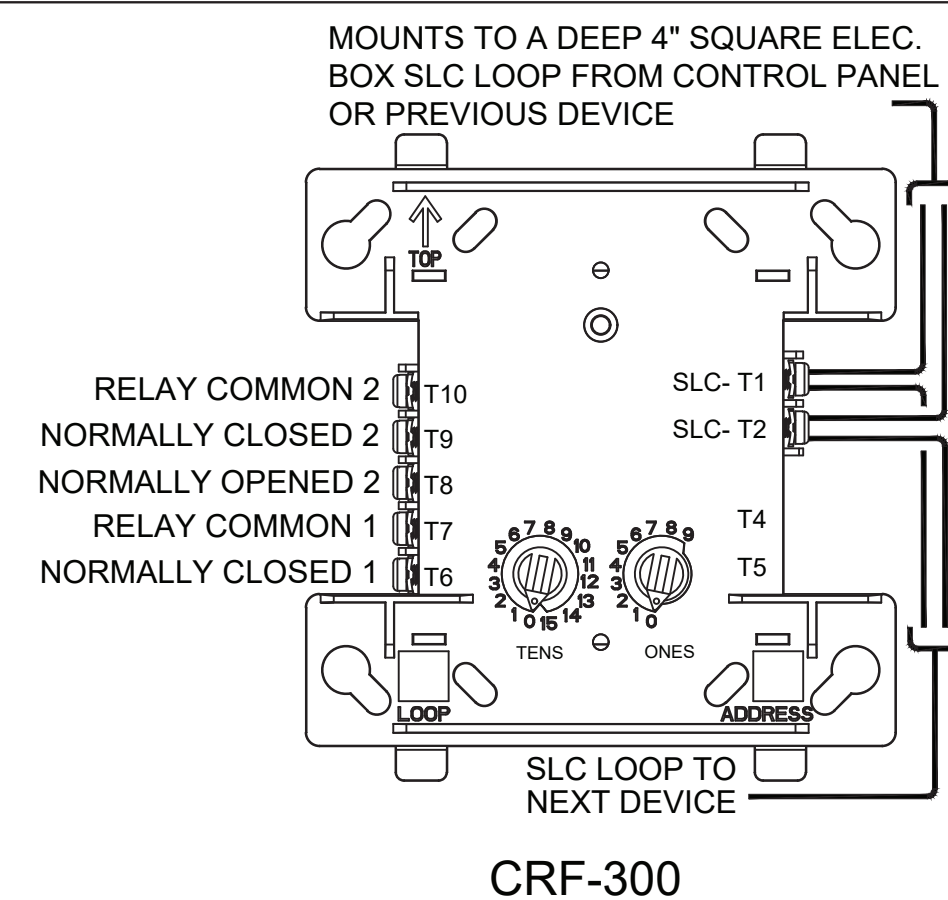
PC2RL / PC2WL  
SCR / SCW

Diagram illustrating the rear panel connections for the P2RL / P2WL and SRL / SWL units. The unit is shown with its rear panel open, revealing the internal terminal block. The connections are as follows:

- FROM PREVIOUS APPLIANCE OR PANEL:**
  - Terminal (+) connects to the top left terminal.
  - Terminal (-) connects to the bottom left terminal.
- TO NEXT APPLIANCE OR EOL:**
  - Terminal (+) connects to the top right terminal.
  - Terminal (-) connects to the bottom right terminal.

The diagram also shows the internal wiring, including the main power supply (P2RL / P2WL) and the signal lines (SRL / SWL).

|                                      |
|--------------------------------------|
| HORN STROBE WALL MOUNT WIRING DETAIL |
|--------------------------------------|



SLC (+)

SLC (-)

SLC (+)

SLC (-)

SLC FROM FIRE  
ALARM CONTROL  
PANEL OR  
PREVIOUS DEVICE

1 2 3 4

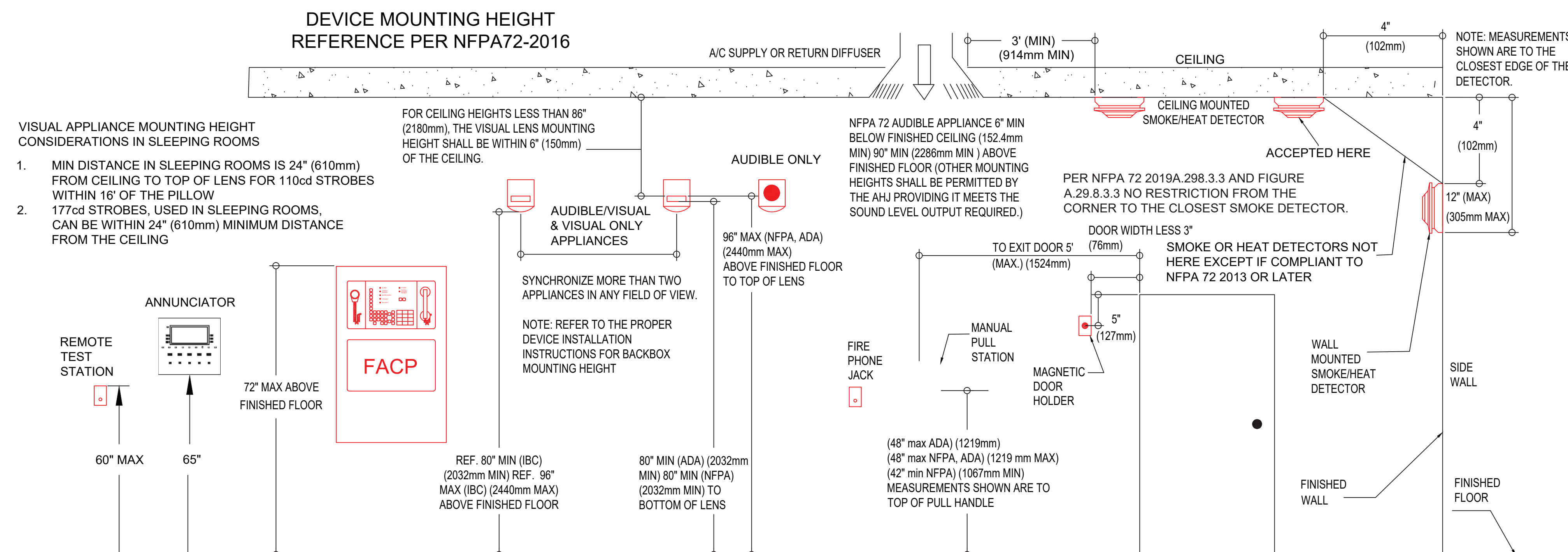
INSTALL INTO:  
SINGLE GANG  
BOX 2-1/8" DEEP  
MINIMUM.  
4"x4"x2-1/8" WITH  
SINGLE GANG  
PLASTER RING

BG-12LX

B300-6 BASE FOR  
SD365 & H365

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DETECTOR BASE WIRING



Michael A. Panethiere

STATE OF MISSISSIPPI  
MICHAEL A. PANETHIERE  
NUMBER  
E-29944  
REGISTERED PROFESSIONAL ENGINEER

06/17