

CFVH HARNETT MOB - 1ST & 2ND FLOOR FIT-UP LILLINGTON, NC

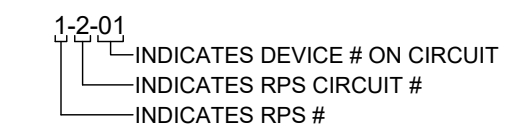
| SYMBOL LEGEND | | | | |
|---------------|--|-----------------|------|--------------------------|
| SYMBOL | DESCRIPTION | MODEL # | QTY. | BACKBOX |
| [FACP] | FIRE ALARM CONTROL PANEL W/DAC & BATTERIES | EXISTING | N/A | N/A |
| [FAA] | LCD REMOTE ANNUNCIATOR | EXISTING | N/A | N/A |
| [FAC] | FIRE ALARM CELLULAR COMMUNICATOR | EXISTING | N/A | N/A |
| [RPS] | REMOTE POWER SUPPLY, 24VDC, 10 AMPS | EXISTING | N/A | N/A |
| [S] | PHOTOELECTRIC SMOKE SENSOR W/BASE | FSP-951, B300-6 | 1 | 4" OCTAGON, 1-1/2" DEEP |
| [D] | DUCT DETECTOR HOUSING W/PHOTOELECTRIC DETECTOR | DNR, FSP-951R | 1 | N/A |
| [P] | MANUAL PULL STATION | NBG-12LX | 1 | SINGLE GANG, 1-1/2" DEEP |
| [T] | REMOTE TEST STATION W/ALARM INDICATOR | RTS151KEY | 1 | SINGLE GANG, 1-1/2" DEEP |
| [M] | MONITOR MODULE | FMM-1 | 3 | N/A |
| [R] | RELAY MODULE | FRM-1 | 3 | N/A |
| [P] | MULTI-VOLTAGE RELAY | PAM-1 | 1 | N/A |
| [H] | HORN STROBE, CEILING MOUNT, WHITE | PC2WLED | 175 | 4" SQUARE, 1-1/2" DEEP |
| [S] | STROBE, CEILING MOUNT, WHITE | SCWLED | 25 | 4" SQUARE, 1-1/2" DEEP |
| --- | DENOTES EXISTING DEVICE OR WIRING | N/A | N/A | N/A |
| [#] | DENOTES NAC END-OF-LINE RESISTOR | N/A | N/A | N/A |

FIRE ALARM NOTES:

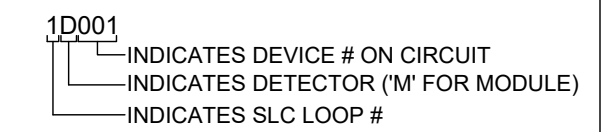
- FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING THE 2018 NC STATE BUILDING CODE AND THE 2013 EDITION OF NFPA 72.
- "cd" RATING IS CALCULATED PER NFPA AND IT IS MINIMUM. PROVIDE MINIMUM OR HIGHER.
- ALL VISIBLE APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72.
- AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DBA ABOVE THE AVERAGE AMBIENT SOUND PRESSURE LEVEL AT ALL LOCATIONS WITHIN THE OCCUPIABLE SPACE. TYPICAL AVERAGE SOUND PRESSURE LEVELS ARE GIVEN IN NFPA 72, TABLE A.18.4.3.
- REFER TO FLOOR PLANS FOR DEVICE TYPE AND LOCATION.
- LABEL ALL DEVICES WITH ADDRESSES.
- LABEL ALL END-OF-LINE DEVICES WITH "EOL" ON DEVICE.
- ALL CABLE TO BE FREE OF SHORTS, GROUNDS, AND OPENS.
- SIGNALING LINE CIRCUIT (SLC) WIRING SHALL BE CLASS 'B' AS PER NFPA 72.
- NOTIFICATION APPLIANCE CIRCUIT (NAC) WIRING SHALL BE CLASS 'B' AS PER NFPA 72. CIRCUITS MAY NOT BE BRANCHED IN ANY WAY. THE END-OF-LINE RESISTOR SHALL PROVIDE CIRCUIT SUPERVISION.
- SMOKE DETECTORS SHALL BE MOUNTED AT LEAST 3 FEET FROM ANY SUPPLY AIR DIFFUSER OR RETURN AIR VENT.
- VERIFY REMOTE TEST STATION LOCATION PRIOR TO ROUGH-IN.
- INSTALLING CONTRACTOR TO PROVIDE PGS A MARKED-UP SET OF SHOP DRAWINGS SHOWING ANY CHANGES IN WIRING ROUTING OR DEVICE ADDRESSES.
- ALL OPENINGS IN RATED ASSEMBLIES SHALL BE REPAIRED AS PER LOCAL BUILDING CODES.

| WIRE LEGEND | | | |
|-------------|--------------------------------------|---|-------------------------------|
| SYMBOL | DESCRIPTION | WIRE TYPE/SIZE | COLOR |
| SLC | SIGNALING LINE CIRCUIT (SLC) | 16/2 FPLP SOLID TWISTED PAIR, NO SHIELD | RED JACKET RED, BLACK |
| NACX | NOTIFICATION APPLIANCE CIRCUIT (NAC) | 14/2 FPLP STRANDED | RED JACKET RED, BLACK |
| E | INITIATING DEVICE CIRCUIT (IDC) | 14/2 FPLP STRANDED | RED JACKET RED, BLACK |
| T | REMOTE TEST STATION | 18/4 FPLP SOLID | RED JACKET RD, GN, YW, BLK |

NOTIFICATION DEVICE LABELING

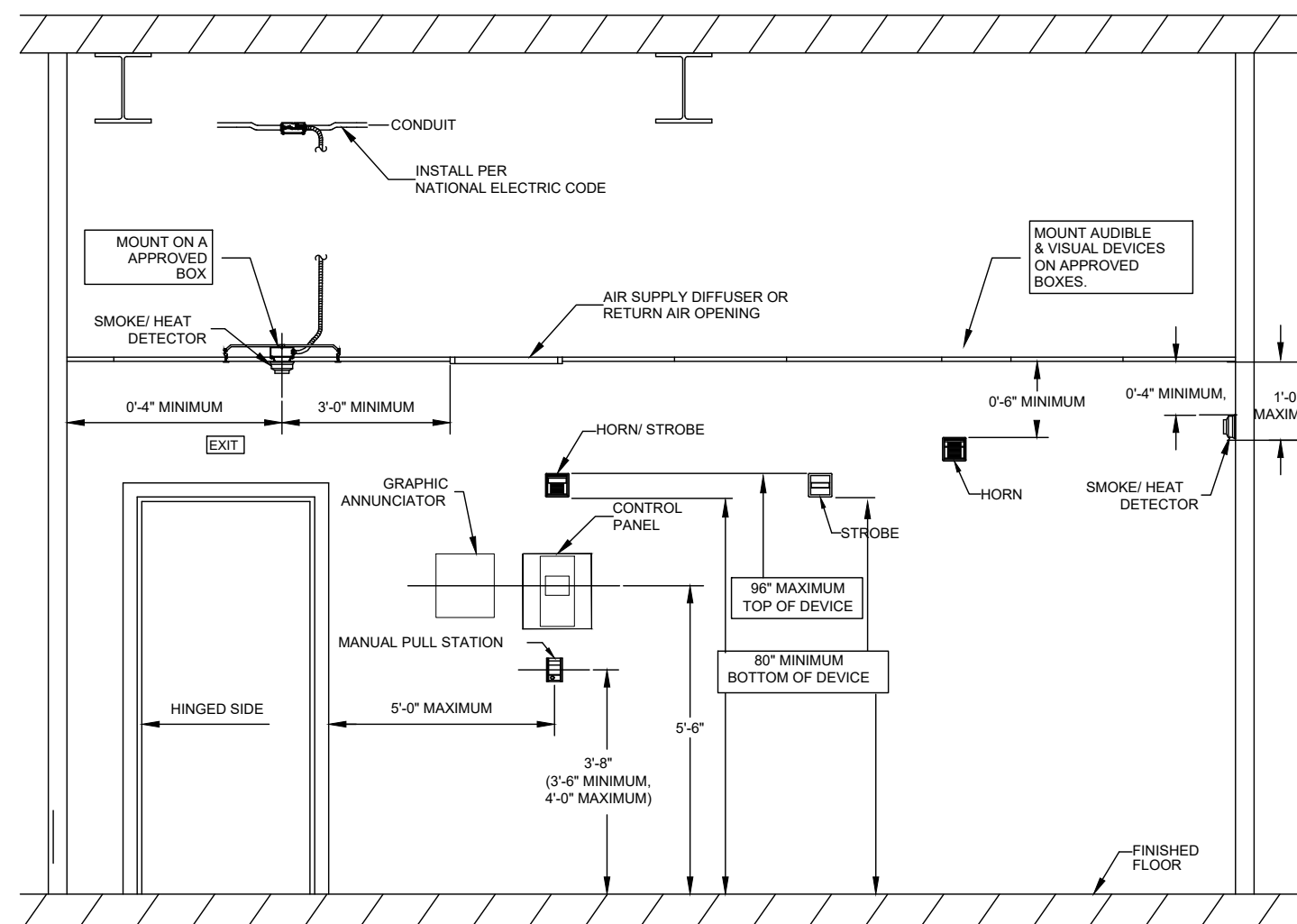


SLC DEVICE LABELING



| SYSTEM INPUTS | BUILDING SYSTEM OUTPUTS | CENTRAL COMMUNICATOR |
|--|-------------------------|----------------------|
| MANUAL PULL STATION | | |
| BUILDING SMOKE DETECTOR | | |
| BUILDING HEAT DETECTOR | | |
| SPRINKLER WATERFLOW | | |
| SPRINKLER TAMPER | | |
| FIRE ALARM AC POWER FAILURE | | |
| FIRE ALARM SYSTEM LOW BATTERY | | |
| OPEN CIRCUIT | | |
| GROUND FAULT | | |
| NOTIFICATION APPLIANCE CIRCUIT SHORT | | |
| HOOD SUPPRESSION SYSTEM | | |
| DUCT DETECTORS | | |
| HEAT DETECTOR IN ELEVATOR SHAFT | | |
| SMOKE DETECTOR IN ELEVATOR SHAFT | | |
| HEAT DETECTOR IN ELEVATOR EQUIPMENT ROOM | | |
| SMOKE DETECTOR IN ELEVATOR EQUIPMENT ROOM | | |
| ELEVATOR LOBBY SMOKE DET. ON PRIMARY RECALL FLOOR | | |
| ELEVATOR LOBBY SMOKE DET. ON OTHER THAN PRIMARY RECALL FLOOR | | |

FIRE ALARM MATRIX



NFPA 72 & ADA INSTALLATION REQUIREMENTS

| DRAWING INDEX | |
|---------------|---------------------------|
| FA-0 | FIRE ALARM DETAILS |
| FA-1 | 1ST FLOOR FIRE ALARM PLAN |
| FA-2 | 2ND FLOOR FIRE ALARM PLAN |
| FA-3 | CALCULATIONS & RISER |

| NO. | DATE | REVISION | BY |
|-----|---------|-----------------|----|
| 1 | 4/24/24 | REVIEW COMMENTS | JC |

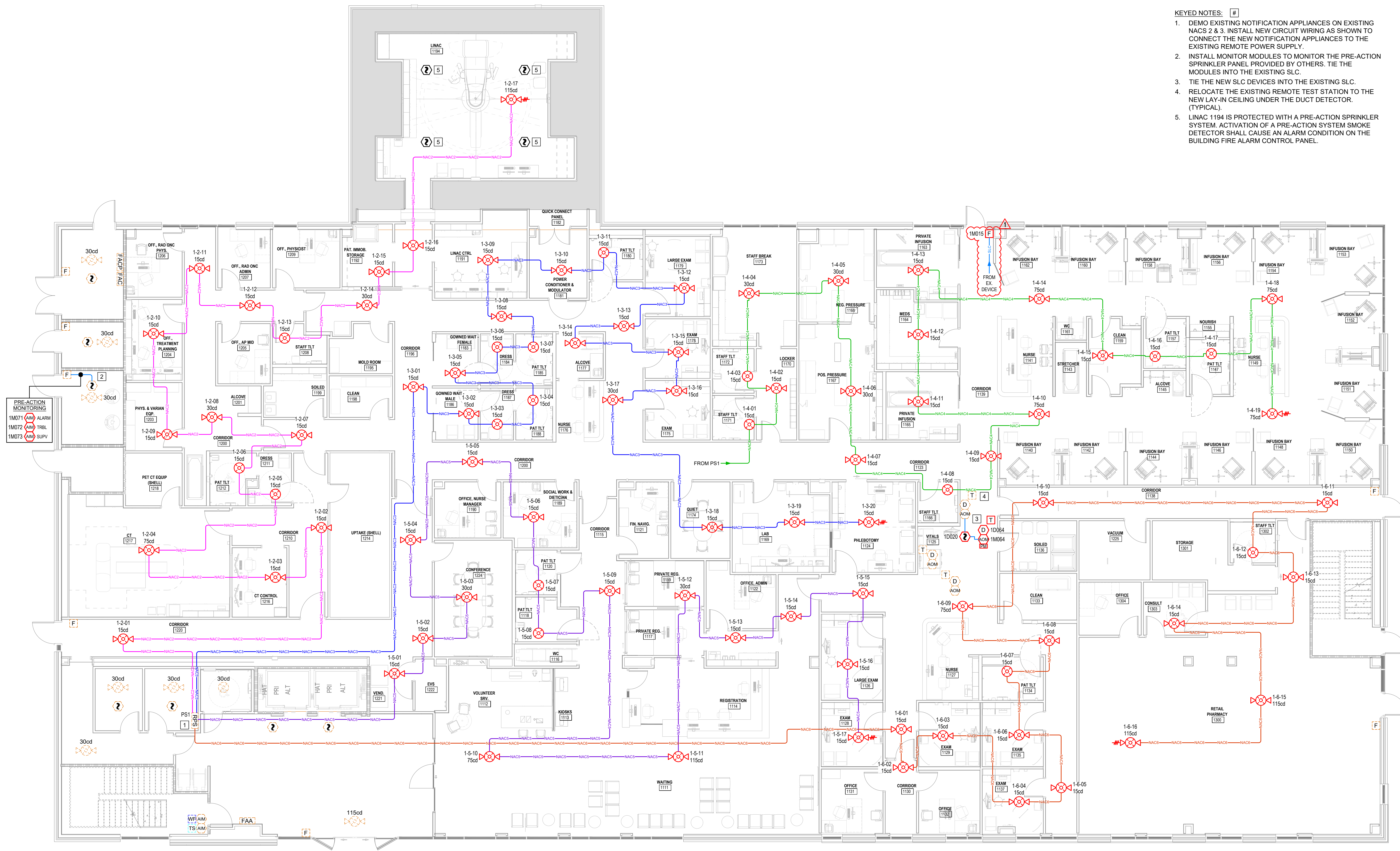
PATTERSON
GROUP SERVICES
POWERED BY API GROUP
1824 DOUGLAS DRIVE
SANFORD, NC 27330
(919) 776-2403
NC LICENSE # 30023-SP-FALY

FIRE ALARM SYSTEM ALTERATIONS FOR:
**CFVH HARNETT MOB -
1ST & 2ND FLOOR FIT-UP**
225 BRIGHTWATER DRIVE
LILLINGTON, NC 27546

COVER SHEET

| | |
|-------------|------------|
| DATE: | 02/26/2024 |
| DRAWN BY: | JRC |
| CHECKED BY: | CP |
| SCALE: | NONE |

SHEET:
FA-0
SHEET 1 OF 5



- KEYED NOTES:**
1. DEMO EXISTING NOTIFICATION APPLIANCES ON EXISTING NACS 2 & 3. INSTALL NEW CIRCUIT WIRING AS SHOWN TO CONNECT THE NEW NOTIFICATION APPLIANCES TO THE EXISTING REMOTE POWER SUPPLY.
 2. INSTALL MONITOR MODULES TO MONITOR THE PRE-ACTION SPRINKLER PANEL PROVIDED BY OTHERS. TIE THE MODULES INTO THE EXISTING SLC.
 3. TIE THE NEW SLC DEVICES INTO THE EXISTING SLC.
 4. RELOCATE THE EXISTING REMOTE TEST STATION TO THE NEW LAY-IN CEILING UNDER THE DUCT DETECTOR (TYPICAL).
 5. LINAC 1194 IS PROTECTED WITH A PRE-ACTION SPRINKLER SYSTEM. ACTIVATION OF A PRE-ACTION SYSTEM SMOKE DETECTOR SHALL CAUSE AN ALARM CONDITION ON THE BUILDING FIRE ALARM CONTROL PANEL.

1 1ST FLOOR FIRE ALARM PLAN
 FA-2 Scale: 1/8"=1'-0"

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
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PATTERSON
GROUP SERVICES
 POWERED BY **API GROUP**
 1824 DOUGLAS DRIVE
 SANFORD, NC 27330
 (919) 776-2403
 NC LICENSE # 30023-SP-FALY

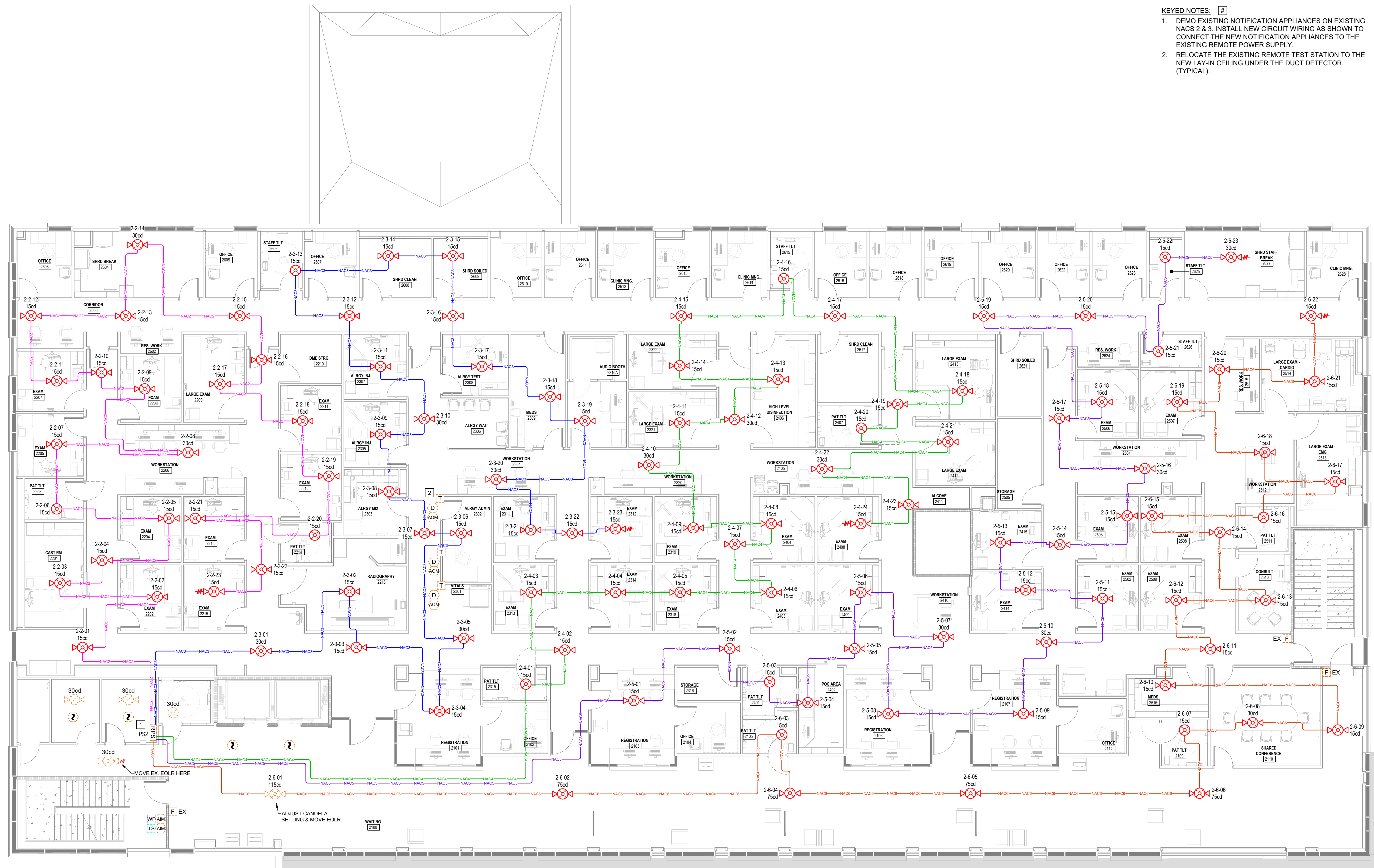
FIRE ALARM SYSTEM ALTERATIONS FOR:
CFVH HARNETT MOB -
1ST & 2ND FLOOR FIT-UP
 225 BRIGHTWATER DRIVE
 LILLINGTON, NC 27546

1ST FLOOR
FIRE ALARM PLAN

DATE: 02/26/2024
 DRAWN BY: JRC
 CHECKED BY: CP
 SCALE: 1/8"=1'-0"

SHEET:
FA-1
 SHEET 2 OF 5

- KEYED NOTES: #
1. DEMO EXISTING NOTIFICATION APPLIANCES ON EXISTING NACS 2 & 3. INSTALL NEW CIRCUIT WIRING AS SHOWN TO CONNECT THE NEW NOTIFICATION APPLIANCES TO THE EXISTING REMOTE POWER SUPPLY.
 2. RELOCATE THE EXISTING REMOTE TEST STATION TO THE NEW LAY-IN CEILING UNDER THE DUCT DETECTOR (TYPICAL).



1 2ND FLOOR FIRE ALARM PLAN
FA-2 Scale: 1/8"=1'-0"

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |
| | | | |
| | | | |
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PATTERSON
GROUP SERVICES
POWERED BY API GROUP
1824 DOUGLAS DRIVE
SANFORD, NC 27330
(919) 776-2403
NC LICENSE # 30023-SP-FALLY

FIRE ALARM SYSTEM ALTERATIONS FOR:
CFVH HARNETT MOB -
1ST & 2ND FLOOR FIT-UP
225 BRIGHTWATER DRIVE
LILLINGTON, NC 27546

2ND FLOOR
FIRE ALARM PLAN

| | |
|-------------|------------|
| DATE: | 02/26/2024 |
| DRAWN BY: | JRC |
| CHECKED BY: | CP |
| SCALE: | 1/8"=1'-0" |

SHEET:
FA-3
SHEET 3 OF 5

| NOTIFIER Standby Battery Calculation | | | | | | |
|---|-----|---------|--------------|---------|--------------|--|
| NFS-320 Fire Alarm Control Panel | | | | | | |
| Protected Premises: CFVH - Harnett MOB 1st & 2nd Floor Fit-Up Date: 4/24/24 | | | | | | |
| Address: 225 Brightwater Drive | | | | | | |
| City: Lillington State: NC Zip: 27546 | | | | | | |
| Panel ID: FACP Location: Main Elec. 107 | | | | | | |
| System Device | Qty | Draw | Standby | Draw | Alarm | |
| CPU 320 Main Board | 1 | 0.25000 | 0.25000 | 0.25000 | 0.25000 | |
| # NACs in use | 1 | 0.03000 | 0.03000 | 0.03000 | 0.03000 | |
| NAC-82 Display (backlight on) | 1 | 0.10000 | 0.10000 | 0.10000 | 0.10000 | |
| LC22-60 LCD Remote Annunciator | 1 | 0.04000 | 0.04000 | 0.04000 | 0.04000 | |
| HW-AVTE Communicator | 1 | 0.06000 | 0.06000 | 0.06000 | 0.06000 | |
| FSP-951 Photoelectric Detector | 17 | 0.00500 | 0.00500 | 0.00500 | 0.00500 | |
| FST-851R Thermal Detector-135 w/ ROR | 2 | 0.00200 | 0.00200 | 0.00200 | 0.00200 | |
| NBS-12X Manual Pull Station | 14 | 0.00075 | 0.00075 | 0.00075 | 0.00075 | |
| DM-128 Detector w/SP-951R | 10 | 0.00050 | 0.00050 | 0.00050 | 0.00050 | |
| RTS151KEY | 10 | 0.00000 | 0.00000 | 0.01200 | 0.12000 | |
| FM-1 Monitor Module | 15 | 0.00075 | 0.00075 | 0.00000 | 0.00000 | |
| FRM-1 Relay Module | 19 | 0.00255 | 0.00485 | 0.00650 | 0.12300 | |
| XP10M Ten Input Monitor Module | 1 | 0.00300 | 0.00300 | 0.00000 | 0.00000 | |
| HFP-PS10B Trigger | 3 | 0.00000 | 0.00000 | 0.02000 | 0.00000 | |
| *FSP-951 Photoelectric Detector | 1 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | |
| *FRM-1 Relay Module | 1 | 0.00000 | 0.00000 | 0.00400 | 0.00400 | |
| *FM-1 Monitor Module | 3 | 0.00075 | 0.00125 | 0.00000 | 0.01500 | |
| *FRM-1 Relay Module | 3 | 0.00255 | 0.00075 | 0.00650 | 0.01950 | |
| *RTS151KEY | 1 | 0.00000 | 0.00000 | 0.01200 | 0.12000 | |
| *NBS-12X Manual Pull Station | 1 | 0.00000 | 0.00075 | 0.00000 | 0.00000 | |
| Total Standby: | | | 0.617 | | 1.370 | |

| Secondary Load Requirements | | 15.04 | Amp Hours |
|---|--------------|-------------|-----------|
| Total Secondary Load from the calculation table below | | | |
| Current Draw (Amps) | Time (Hours) | Total (AWh) | |
| Secondary Standby Load | 24 | 12.42 | |
| Secondary Alarm Load | 0.517 | 0.12 | |
| Total Secondary Load | | | |
| 12.53 | | | |
| Derating Factor | 1.2 | | |
| Secondary Load Requirements | 15.04 | | |

| Battery Selection | | 18 | Amp Hours |
|---------------------------------|--|----|-----------|
| *Devices added for this project | | | |

FACP STANDBY BATTERY CALCULATION

| NOTIFIER Standby Battery Calculation | | | | | | |
|---|-----|---------|--------------|---------|--------------|--|
| HFP-PS10B Remote Power Supply | | | | | | |
| Protected Premises: CFVH Harnett MOB 1st & 2nd Floor Fit-Up Date: 2/26/2024 | | | | | | |
| Address: 225 Brightwater Drive | | | | | | |
| City: Lillington State: NC Zip: 27546 | | | | | | |
| Panel ID: PS1 Location: 1st Floor, Electrical 103 | | | | | | |
| System Device | Qty | Draw | Standby | Draw | Alarm | |
| HFP-PS10B Main Board | 1 | 0.15000 | 0.15000 | 0.17000 | 0.17000 | |
| PCZWLED30 | 6 | 0.00000 | 0.00000 | 0.03800 | 0.22800 | |
| PCZWLED115 | 52 | 0.00000 | 0.00000 | 0.12000 | 1.44000 | |
| PCZWLED30 | 1 | 0.00000 | 0.00000 | 0.02000 | 0.02000 | |
| PCZWLED15 | 13 | 0.00000 | 0.00000 | 0.03200 | 1.85200 | |
| PCZWLED30 | 8 | 0.00000 | 0.00000 | 0.03800 | 0.30400 | |
| PCZWLED75 | 7 | 0.00000 | 0.00000 | 0.08700 | 0.60900 | |
| PCZWLED115 | 4 | 0.00000 | 0.00000 | 0.12000 | 0.48000 | |
| PCZWLED15 | 17 | 0.00000 | 0.00000 | 0.01800 | 0.30600 | |
| Total Standby: | | | 0.156 | | 6.420 | |

| Secondary Load Requirements | | 5.04 | Amp Hours |
|---|--------------|-------------|-----------|
| Total Secondary Load from the calculation table below | | | |
| Current Draw (Amps) | Time (Hours) | Total (AWh) | |
| Secondary Standby Load | 24 | 3.74 | |
| Secondary Alarm Load | 0.156 | 0.46 | |
| Total Secondary Load | | | |
| 4.20 | | | |
| Derating Factor | 1.2 | | |
| Secondary Load Requirements | 5.04 | | |

| Battery Selection | | 7 | Amp Hours |
|---------------------------------|--|---|-----------|
| *Devices added for this project | | | |

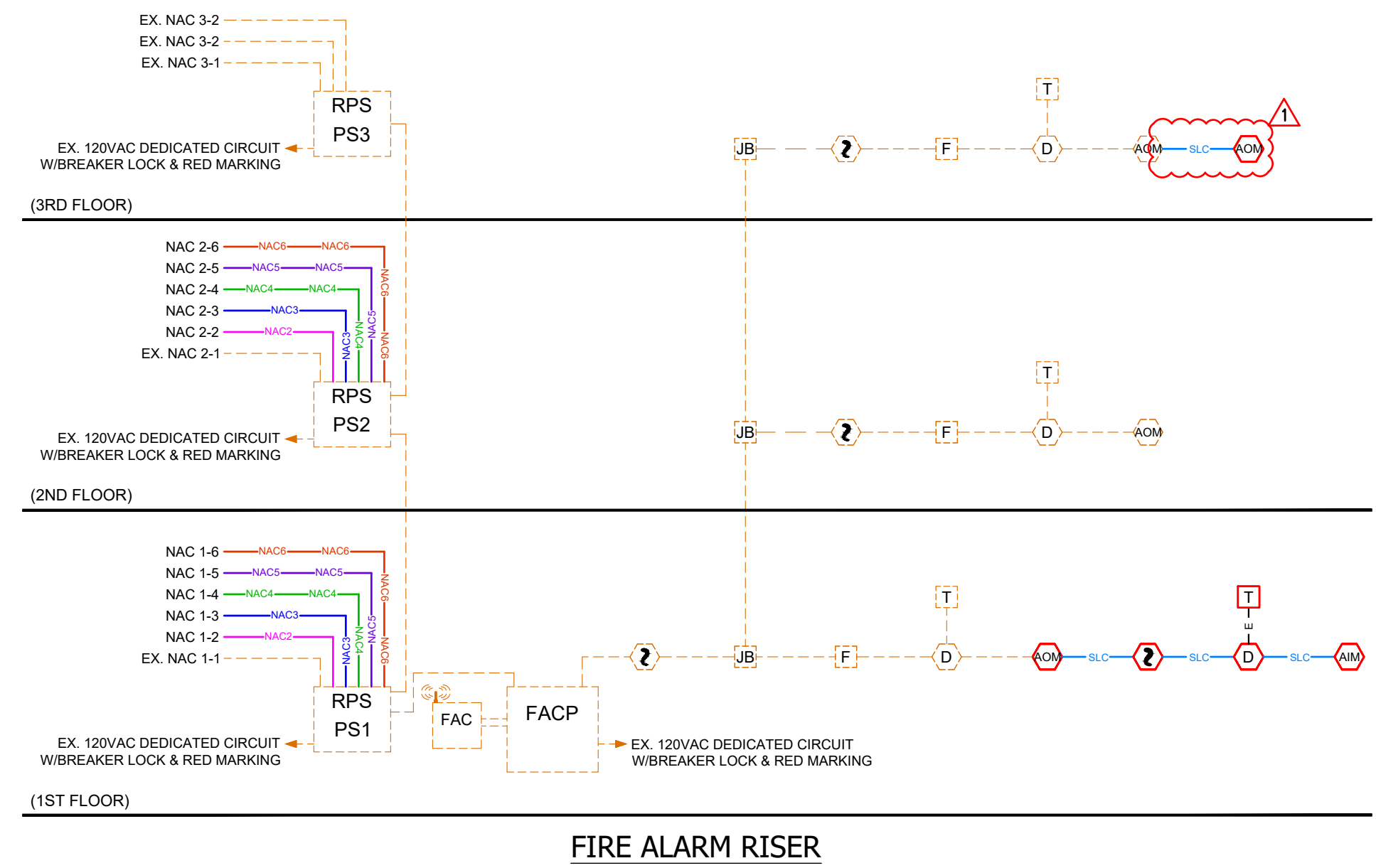
PS1 STANDBY BATTERY CALCULATION

| NOTIFIER Standby Battery Calculation | | | | | | |
|---|-----|---------|--------------|---------|--------------|--|
| HFP-PS10B Remote Power Supply | | | | | | |
| Protected Premises: CFVH Harnett MOB 1st & 2nd Floor Fit-Up Date: 2/26/2024 | | | | | | |
| Address: 225 Brightwater Drive | | | | | | |
| City: Lillington State: NC Zip: 27546 | | | | | | |
| Panel ID: PS2 Location: 2nd Floor, Electrical 203 | | | | | | |
| System Device | Qty | Draw | Standby | Draw | Alarm | |
| HFP-PS10B Main Board | 1 | 0.15000 | 0.15000 | 0.17000 | 0.17000 | |
| PCZWLED30 | 1 | 0.00000 | 0.00000 | 0.03800 | 0.11400 | |
| PCZWLED15 | 3 | 0.00000 | 0.00000 | 0.02000 | 0.02000 | |
| PCZWLED15 | 24 | 0.00000 | 0.00000 | 0.03200 | 3.24000 | |
| PCZWLED30 | 14 | 0.00000 | 0.00000 | 0.03800 | 0.53200 | |
| PCZWLED75 | 4 | 0.00000 | 0.00000 | 0.08700 | 0.34800 | |
| PCZWLED115 | 1 | 0.00000 | 0.00000 | 0.12000 | 0.12000 | |
| PCZWLED15 | 12 | 0.00000 | 0.00000 | 0.01800 | 0.21600 | |
| Total Standby: | | | 0.156 | | 6.420 | |

| Secondary Load Requirements | | 4.94 | Amp Hours |
|---|--------------|-------------|-----------|
| Total Secondary Load from the calculation table below | | | |
| Current Draw (Amps) | Time (Hours) | Total (AWh) | |
| Secondary Standby Load | 24 | 3.74 | |
| Secondary Alarm Load | 0.156 | 0.38 | |
| Total Secondary Load | | | |
| 4.12 | | | |
| Derating Factor | 1.2 | | |
| Secondary Load Requirements | 4.94 | | |

| Battery Selection | | 7 | Amp Hours |
|---------------------------------|--|---|-----------|
| *Devices added for this project | | | |

PS2 STANDBY BATTERY CALCULATION



FIRE ALARM RISER

| Point to Point Voltage Drop Analysis | | | | | | |
|---|-------------|---------------|-------------------------|-----------------------|------------------------------|-----------|
| HFP-PS10B Remote Power Supply | | | | | | |
| Source Voltage: 20.4 Nominal System Voltage | | | | | | |
| Project Name: CFVH Harnett MOB Fit-Up Date: 2/26/2024 | | | | | | |
| Circuit No: 2-2 Minimum Voltage: 16 | | | | | | |
| Area Covered: 2nd Floor Wire Gauge: 14 | | | | | | |
| Ohm's per 1,000 Ft.: 3.14 | | | | | | |
| Device Number | Part Number | Current (amp) | Distance (Feet) Between | Distance (Feet) Total | Voltage at Device | |
| 1 | PCZWLED30 | 0.035 | 45 | 45 | 20.18 | |
| 2 | PCZWLED15 | 0.035 | 30 | 75 | 20.04 | |
| 3 | PCZWLED15 | 0.035 | 30 | 105 | 19.91 | |
| 4 | PCZWLED15 | 0.035 | 25 | 130 | 19.80 | |
| 5 | PCZWLED15 | 0.035 | 30 | 160 | 19.68 | |
| 6 | PCZWLED15 | 0.035 | 30 | 190 | 19.57 | |
| 7 | PCZWLED15 | 0.035 | 25 | 215 | 19.46 | |
| 8 | PCZWLED15 | 0.035 | 35 | 250 | 19.36 | |
| 9 | PCZWLED15 | 0.035 | 40 | 290 | 19.23 | |
| 10 | PCZWLED15 | 0.035 | 25 | 315 | 19.15 | |
| 11 | PCZWLED15 | 0.035 | 25 | 340 | 19.06 | |
| 12 | PCZWLED15 | 0.035 | 25 | 365 | 18.97 | |
| 13 | PCZWLED15 | 0.035 | 25 | 390 | 18.89 | |
| 14 | PCZWLED15 | 0.035 | 25 | 415 | 18.81 | |
| 15 | PCZWLED15 | 0.035 | 40 | 455 | 18.63 | |
| 16 | PCZWLED15 | 0.035 | 25 | 480 | 18.79 | |
| 17 | PCZWLED15 | 0.035 | 25 | 505 | 18.70 | |
| 18 | PCZWLED15 | 0.035 | 30 | 535 | 18.72 | |
| 19 | PCZWLED15 | 0.035 | 25 | 560 | 18.70 | |
| 20 | PCZWLED15 | 0.035 | 25 | 585 | 18.68 | |
| 21 | PCZWLED15 | 0.035 | 25 | 610 | 18.66 | |
| 22 | PCZWLED15 | 0.035 | 30 | 640 | 18.65 | |
| 23 | PCZWLED15 | 0.035 | 25 | 665 | 18.64 | |
| Total Power: | | 0.777 | | | %Voltage Drop: -6.62% | Go |

| Point to Point Voltage Drop Analysis | | | | | | |
|---|-------------|---------------|-------------------------|-----------------------|------------------------------|-----------|
| HFP-PS10B Remote Power Supply | | | | | | |
| Source Voltage: 20.4 Nominal System Voltage | | | | | | |
| Project Name: CFVH Harnett MOB Fit-Up Date: 2/26/2024 | | | | | | |
| Circuit No: 2-3 Minimum Voltage: 16 | | | | | | |
| Area Covered: 2nd Floor Wire Gauge: 14 | | | | | | |
| Ohm's per 1,000 Ft.: 3.14 | | | | | | |
| Device Number | Part Number | Current (amp) | Distance (Feet) Between | Distance (Feet) Total | Voltage at Device | |
| 1 | PCZWLED30 | 0.035 | 30 | 30 | 20.15 | |
| 2 | PCZWLED15 | 0.035 | 35 | 65 | 19.98 | |
| 3 | PCZWLED15 | 0.035 | 25 | 90 | 19.87 | |
| 4 | PCZWLED15 | 0.035 | 35 | 125 | 19.72 | |
| 5 | PCZWLED30 | 0.038 | 30 | 155 | 19.59 | |
| 6 | PCZWLED15 | 0.035 | 40 | 195 | 19.44 | |
| 7 | PCZWLED15 | 0.035 | 20 | 215 | 19.36 | |
| 8 | PCZWLED15 | 0.035 | 25 | 240 | 19.26 | |
| 9 | PCZWLED15 | 0.035 | 25 | 265 | 19.20 | |
| 10 | PCZWLED15 | 0.038 | 20 | 285 | 19.14 | |
| 11 | PCZWLED15 | 0.035 | 30 | 315 | 19.05 | |
| 12 | PCZWLED15 | 0.035 | 25 | 340 | 18.99 | |
| 13 | PCZWLED15 | 0.038 | 30 | 370 | 18.92 | |
| 14 | PCZWLED15 | 0.035 | 25 | 395 | 18.86 | |
| 15 | PCZWLED15 | 0.035 | 20 | 420 | 18.80 | |
| 16 | PCZWLED15 | 0.035 | 20 | 440 | 18.71 | |
| 17 | PCZWLED15 | 0.035 | 25 | 465 | 18.67 | |
| 18 | PCZWLED15 | 0.035 | 25 | 490 | 18.73 | |
| 19 | PCZWLED15 | 0.035 | 25 | 515 | 18.70 | |
| 20 | PCZWLED15 | 0.035 | 20 | 540 | 18.67 | |
| 21 | PCZWLED15 | 0.035 | 25 | 570 | 18.64 | |
| 22 | PCZWLED15 | 0.035 | 25 | 595 | 18.63 | |
| 23 | PCZWLED15 | 0.035 | 20 | 615 | 18.62 | |
| 24 | PCZWLED15 | 0.035 | 20 | 635 | 18.61 | |
| Total Power: | | 0.860 | | | %Voltage Drop: -6.78% | Go |

| Point to Point Voltage Drop Analysis | | | | | | |
|---|-------------|---------------|-------------------------|-----------------------|------------------------------|-----------|
| HFP-PS10B Remote Power Supply | | | | | | |
| Source Voltage: 20.4 Nominal System Voltage | | | | | | |
| Project Name: CFVH Harnett MOB Fit-Up Date: 2/26/2024 | | | | | | |
| Circuit No: 2-4 Minimum Voltage: 16 | | | | | | |
| Area Covered: 2nd Floor Wire Gauge: 14 | | | | | | |
| Ohm's per 1,000 Ft.: 3.14 | | | | | | |
| Device Number | Part Number | Current (amp) | Distance (Feet) Between | Distance (Feet) Total | Voltage at Device | |
| 1 | PCZWLED15 | 0.035 | 105 | 105 | 19.87 | |
| 2 | PCZWLED15 | 0.035 | 25 | 130 | 19.79 | |
| 3 | PCZWLED15 | 0.035 | 25 | 155 | 19.63 | |
| 4 | PCZWLED15 | 0.035 | 25 | 180 | 19.52 | |
| 5 | PCZWLED15 | 0.035 | 20 | 200 | 19.44 | |
| 6 | PCZWLED15 | 0.035 | 25 | 225 | 19.34 | |
| 7 | PCZWLED15 | 0.035 | 25 | 250 | 19.24 | |
| 8 | PCZWLED15 | 0.035 | 20 | 270 | 19.17 | |
| 9 | PCZWLED15 | 0.035 | 25 | 295 | 19.09 | |
| 10 | PCZWLED15 | 0.035 | 25 | 320 | 19.03 | |
| 11 | PCZWLED15 | 0.035 | 35 | 355 | 18.92 | |
| 12 | PCZWLED15 | 0.035 | 30 | 385 | 18.83 | |
| 13 | PCZWLED15 | 0.035 | 30 | 415 | 18.75 | |
| 14 | PCZWLED15 | 0.035 | 25 | 440 | 18.69 | |
| 15 | PCZWLED15 | 0.035 | 45 | 485 | 18.63 | |
| 16 | PCZWLED15 | 0.035 | 20 | 505 | 18.59 | |
| 17 | PCZWLED15 | 0.035 | 30 | 535 | 18.54 | |
| 18 | PCZWLED15 | 0.035 | 25 | 560 | 18.50 | |
| 19 | PCZWLED15 | 0.035 | 25 | 585 | 18.47 | |
| 20 | PCZWLED15 | 0.035 | 30 | 615 | 18.42 | |
| 21 | PCZWLED15 | 0.035 | 30 | 640 | 18.40 | |
| 22 | PCZWLED15 | 0.035 | 30 | 665 | 18.41 | |
| 23 | PCZWLED15 | 0.035 | 25 | 690 | 18.40 | |
| 24 | PCZWLED15 | 0.035 | 25 | 720 | 18.40 | |
| Total Power: | | 0.798 | | | %Voltage Drop: -6.78% | Go |

2ND FLOOR VOLTAGE DROP CALCULATIONS

| Point to Point Voltage Drop Analysis | | | | | | |
|---|-------------|---------------|-------------------------|-----------------------|-------------------|--|
| HFP-PS10B Remote Power Supply | | | | | | |
| Source Voltage: 20.4 Nominal System Voltage | | | | | | |
| Project Name: CFVH Harnett MOB Fit-Up Date: 2/26/2024 | | | | | | |
| Circuit No: 1-2 Minimum Voltage: 16 | | | | | | |
| Area Covered: 1st Floor Wire Gauge: 14 | | | | | | |
| Ohm's per 1,000 Ft.: 3.14 | | | | | | |
| Device Number | Part Number | Current (amp) | Distance (Feet) Between | Distance (Feet) Total | Voltage at Device | |
| 1 | PCZWLED15 | 0.035 | 45 | 45 | 20.21 | |
| 2 | PCZWLED15 | 0.035 | 60 | 105 | 19.96 | |
| 3 | PCZWLED15 | 0.035 | 25 | 130 | 19.87 | |
| 4 | PCZWLED15 | 0.035 | 35 | 165 | 19.74 | |
| 5 | PCZWLED15 | 0.038 | 30 | 195 | 19.54 | |
| 6 | PCZWLED15 | 0.035 | 40 | 235 | 19.35 | |
| 7 | PCZWLED15 | 0.035 | 30 | 265 | 19.45 | |