

### GENERAL NOTES

1. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS.
2. ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS AND GROUNDS.
3. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE DESIGNER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
4. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE.
5. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
6. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST.
7. INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).
9. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.
10. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
11. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.
12. ONLY FIRE ALARM SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
13. MAINTAIN 40 PERCENT MAXIMUM CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.
14. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY, HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES.
15. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A CENTRAL UL LISTED MONITORING STATION. THE MEANS OF MONITORING SHALL BE VIA TWO COPPER ANALOG PHONE LINES, AND THE FIRE ALARM PANEL WILL SEIZE THE LINES FOR FIRE USE.
16. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
17. DEVICES LOCATED INSIDE THE RATED AREA MUST ADHERE TO EXPLOSION PROOF CONDUIT AND BACK BOX REQUIREMENTS.

### SCOPE OF WORK

1. INSTALLATION OF NEW FIRE ALARM DEVICES AS SHOWN ON PLANS.
2. THE FIRE ALARM SYSTEM SHALL BE COMPLIANT TO CURRENT CODES.

### APPLICABLE CODES

INTERNATIONAL BUILDING CODE - 2018 ED.  
 INTERNATIONAL MECHANICAL CODE - 2018 ED.  
 UNIFORM PLUMBING CODE - 2018 ED.  
 INTERNATIONAL FUEL GAS CODE - 2018 ED.  
 INTERNATIONAL ENERGY CONSERVATION CODE - 2018 ED.  
 NATIONAL ELECTRICAL CODE - 2017 ED.  
 INTERNATIONAL FIRE CODE - 2018 ED.  
 ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.  
 NFPA 72 2019 EDITION

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PROJECT  
**PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT**

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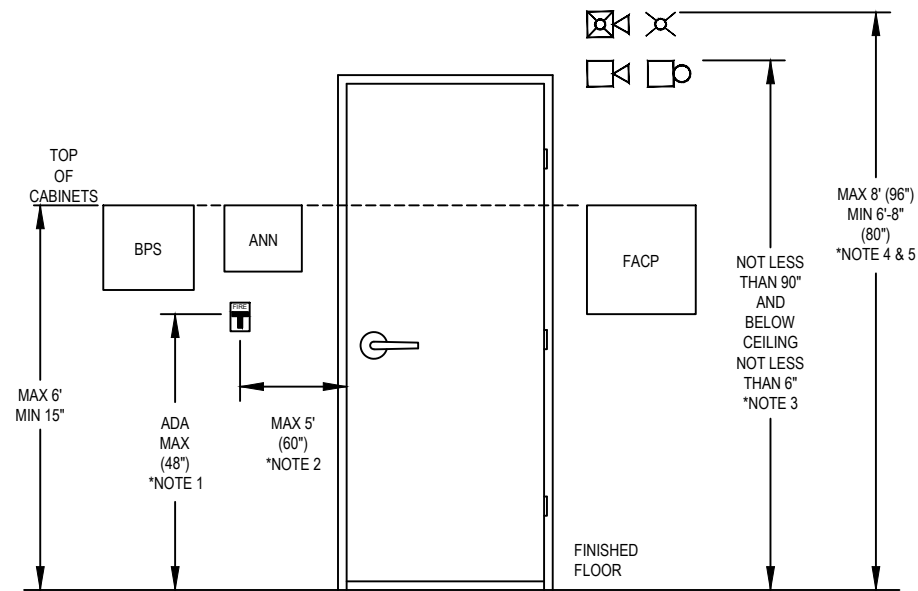
SHEET DESCRIPTION:  
 FIRE ALARM SYSTEM  
 COVER SHEET

DRAWN BY: THAIS REZENDE  
 DATE: 10.21.2022  
 SCALE: N.T.S.

SHEET:  
**FA-00**  
 1 OF 18

### TYPICAL MOUNTING HEIGHTS

1. NFPA 72 2019 17.15.6 THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42in AND NOT MORE THAN 48in FROM THE FINISHED FLOOR.
2. NFPA 72 2019 17.15.9.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5ft OF EACH EXIT DOORWAY ON EACH FLOOR.
3. NFPA 72 2019 18.4.9.1 IF CEILING HEIGHTS ALLOW, AND UNLESS OTHERWISE PERMITTED BY 18.4.9.2 THROUGH 18.4.9.5, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90in AND BELOW THE FINISHED CEILINGS AT DISTANCES OF NOT LESS THAN 6in.
4. NFPA 72 2019 18.4.9.3 IF COMBINATION AUDIBLE/ VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF 18.5.5. (SEE NOTE 5).
5. NFPA 72 2019 18.5.5.1 WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80in. AND NOT GREATER THAN 96in ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE BASED ALTERNATIVE OF 18.5.5.7.



## EVENT

| EVENT                                | ACTION                                    |   |                               |
|--------------------------------------|---|---|-------------------------------|
|                                      | TROUBLE SIGNAL @ FIRE ALARM CONTROL PANEL | ALARM SIGNAL @ FIRE ALARM CONTROL PANEL | ACTIVATE NOTIFICATION DEVICES |
| SMOKE DETECTOR                       |   | ●                                       | ●                             |
| EXPLOSION-PROOF SMOKE DETECTOR       | ●   | ●                                       | ●                             |
| FACP AC POWER FAILURE                | ●   |   |                               |
| SYSTEM LOW BATTERY                   | ●   |   |                               |
| OPEN CIRCUIT                         | ●   |   |                               |
| GROUND FAULT                         | ●   |   |                               |
| NOTIFICATION APPLIANCE CIRCUIT SHORT | ●   |   |                               |

NOTE: ALL SIGNALS WILL BE SENT TO A CENTRAL STATION

PROJECT

PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

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SHEET DESCRIPTION:

FIRE ALARM SYSTEM  
SEQUENCE OF  
OPERATION

DRAWN BY: THAIS REZENDE

DATE: 10.21.2022

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**FA-01**







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


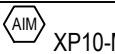


SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
EQUIPMENT LIST,  
CABLE & WIRE LEGEND

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: N.T.S.

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**FA-02**  
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| EQUIPMENT LIST   |     |              |                        |   |  |  |
|--|-----|--------------|------------------------|---|--|--|
| SYMBOL   | QTY | MANUFACTURER | PART NO                | DESCRIPTION   | AGENCY LISTING   |  |
|  FACU       | 1   | NOTIFIER     | NFS-320                | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL                | UL/ULC Listed: S635 - FM Approved - CSFM: 7165-0028:0243 - MEA: 128-07 - Fire Dept. of New York: COA# 6212 - City of Chicago - ULC Listed: S527-11 - US Coast Guard 161.002/50/0, 161.002/55/0 - Lloyd's Register 11/600013 - American Bureau of Shipping (ABS) Type Approval. |  |
|  CLSS       | 1   | HONEYWELL    | HON-CGW-MBB            | CONNECTED LIFE SAFETY SERVICES (CLSS) GATEWAY FOR PLC INTERFACE | UL: File No. S35608- CSFM: 7300-1637:0504 - FDNY: COA# 2021-TMCOAP-006279-AMND - FCC ID: PV3CGWMB - IC: 1609A-CGWMB.   |  |
|  SS 120v    | 1   | DITEK        | DTK-120HW              | OVERVOLTAGE PROTECTOR CIRCUIT PROTECTION-120V                   | UL 1449, 3rd Edition, cUL  |  |
|  AIM XP10-M | 1   | NOTIFIER     | XP10-M                 | TEN INPUT MONITOR MODULE  | UL Listed: S635 - ULC Listed: S635 (XP10-MA) - CSFM approved: 7300-0028:219 - FM approved - MEA approved: 43-02-E - Maryland State Fire Marshal approved: Permit #2106.  |  |
|  S XP       | 2   | NOTIFIER     | 30-3013                | EXPLOSION-PROOF SMOKE DETECTOR                                  | FM Approved (Class 1 Div 1 Groups B, C, D T4 - Class 1 Div 2 Groups A, B, C, D, T4 - Class 1 Zone1 AWX db ia IIC T4 Gb) - IEC/IECx (FMG 15.0014X - Ex db ia IIC T4 Gb).  |  |
|  S        | 3   | NOTIFIER     | FSV-951R W/B300-6 BASE | VERY INTELLIGENT EARLY WARNING SMOKE DETECTOR, STANDARD BASE    | UL/ULC Listed: (S911, S1115, S747) - FM Approved: (450568, 3062622) - CSFM: (7272-0028:0506, 7300-1653:0109).  |  |
|  WP       | 2   | GENTEX       | WGEC24-75WR            | HORN STROBE, RED, WALL, OUTDOOR                                 | ANSI/UL Listed:(464, 1638) - CAN/ULC Listed:(S525, S526) - CSFM: (7135-0569:122, 7300-0569:124) - MEA approved: 285-91E-XVI.   |  |

| CABLE AND WIRE LEGEND |                  |     |                    |   |              |  |
|-----------------------|------------------|-----|--------------------|---|--------------|--|
| LABEL                 | PART NO          | AWG | RESISTANCE (Ω/KFT) | DESCRIPTION   | TOTAL LENGTH |  |
| RS232                 | 18/2 FPLP (CLSS) | 18  | 6.5                | CLSS - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED      | 3'           |  |
| D                     | 18/2 FPLP (SLC)  | 18  | 6.5                | SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED  | 14'          |  |
| P                     | 14/2 FPLP (AUX)  | 14  | 2.6                | AUX POWER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED | 38'          |  |
| V                     | 14/2 FPLP (NAC)  | 14  | 2.6                | NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       | 17'          |  |
| Z                     | 18/2 FPLP (IDC)  | 18  | 6.5                | IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       | 106'         |  |

| PANEL FACU-1 (NFS-320) BATTERY CALCULATION |  |     |                        |   |                                  |                                |                  |           |
|--|--|-----|------------------------|---|----------------------------------|--------------------------------|------------------|-----------|
| (SECONDARY POWER SOURCE REQUIREMENTS)      |  |     |                        |   |                                  |                                |                  |           |
| PANEL POWER SUPPLY MAX CURRENT = 6A        |  |     |                        | TOTAL USED CAPACITY (IN ALARM) = 1.4445A (24.08 %)                    |                                  |                                |                  |           |
|  |  |     |                        | STANDBY CURRENT (AMPS)  |                                  | SECONDARY ALARM CURRENT (AMPS) |                  |           |
| PANEL COMPONENTS                           |  | QTY | PART NO.               | DESCRIPTION   | CURRENT DRAW (A)                 | TOTAL (A)                      | CURRENT DRAW (A) | TOTAL     |
|  |  | 1   | CPS-24                 | Fire Alarm Power Supply Card  | 0                                | 0                              | 0                | 0         |
|  |  | 1   | CPU-320                | NFS-320 Fire Alarm Control Panel Main Board (Central Processing Unit) | 0.39                             | 0.39                           | 0.39             | 0.39      |
|  |  | 1   | KDM-R2                 | Keypad/Display Unit   | 0.1                              | 0.1                            | 0.1              | 0.1       |
| CIRCUIT                                    | SYMBOL   | QTY | PART NO                | DESCRIPTION   | CURRENT DRAW (A)                 | TOTAL (A)                      | CURRENT DRAW (A) | TOTAL (A) |
| FACU-1•AUX                                 |  XP       | 2   | 30-3013                | Explosion-Proof Smoke Detector  | 0.115                            | 0.23                           | 0.146            | 0.292     |
|  |           | 1   | HON-CGW-MBB            | CLSS Gateway with the enclosure                                       | 0.14                             | 0.14                           | 0.25             | 0.25      |
| FACU-1•L1                                  |          | 3   | FSV-951R w/B300-6 Base | Very Intelligent Early Warning smoke detector. Standard Base          | 0.0002                           | 0.0006                         | 0.0045           | 0.0135    |
|  |  XP10-M | 1   | XP10-M                 | Ten Input Monitor Module  | 0.003                            | 0.003                          | 0.003            | 0.003     |
| FACU-1•N1                                  |  WP     | 2   | WGEC24-75WR            | Horn Strobe, Red, Wall, Outdoor 75cd                                  | 0                                | 0                              | 0.198            | 0.396     |
| FACU-1•NUP (RS232)                         |         | 1   | HON-CGW-MBB            | CLSS Gateway with the enclosure                                       | 0                                | 0                              | 0                | 0         |
|  |  |     |                        |   | TOTAL STANDBY (A)                | 0.8636                         | TOTAL ALARM (A)  | 1.4445    |
|  |  |     |                        |   | REQUIRED STANDBY TIME = 24 HOURS |                                |                  |           |
|  |  |     |                        |   | REQUIRED ALARM TIME = 5 MINUTES  |                                |                  |           |
| SECONDARY STANDBY LOAD (A)                 |  |     |                        | 0.8636  | 24                               | 20.73                          |                  |           |
| SECONDARY ALARM LOAD (A)                   |  |     |                        | 1.4445  | 0.08                             | 0.12                           |                  |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)     |  |     |                        |   | 20.85                            |                                |                  |           |
| DERATING FACTOR                            |  |     |                        |   | 1.2                              |                                |                  |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)    |  |     |                        |   | 25.02                            |                                |                  |           |
| PROVIDE (2) 12V 26AH BATTERIES             |  |     |                        |   |                                  |                                |                  |           |

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SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
BATTERY CALCULATION



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SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
VOLTAGE DROP

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: N.T.S.

SHEET:  
**FA-04**  
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| FACU-1 AUX LUMP SUM REPORT   |  |                            |                                 | CIRCUIT SETTINGS              |                    | TOTALS                     |         |
|--|--|----------------------------|---------------------------------|-------------------------------|--------------------|----------------------------|---------|
|  |  |                            |                                 | Starting Calculation Voltage: | 20.4               | Max. Voltage Drop:         | 0.1     |
| Min. Operational Voltage:  | 16   | End Of Line Voltage:       | 20.3                            |                               |                    |                            |         |
| Max. Circuit Current (A):  | 5  | Voltage Drop Percent:      | 0.50 %                          |                               |                    |                            |         |
| Wire Resistance (Ω/kFt):   | 2.6  | Total Circuit Current (A): | 0.542                           |                               |                    |                            |         |
| Circuit Wiring Properties: 'P' 14/2 FPLP (AUX) 14 AWG, AUX POWER - 2 Cond. Solid Copper FPLP Analog Unshielded |  |                            |                                 | Total Circuit Length (Ft):    | 36                 | Spare Current (A):         | 4.458   |
| Distance measured using drawn segment lengths with 10.00 % additional length calculated                        |  |                            |                                 | Total Circuit Resistance (Ω): | 0.189646           | Spare Current (A) Percent: | 89.16 % |
| DEVICE TOTALS  | Symbol   | Part No.                   | Description                     | Qty.                          | Device Current (A) | Total Current (A)          |         |
|  |  XP   | 30-3013                    | Explosion-Proof Smoke Detector  | 2                             | 0.146              | 0.292                      |         |
|  |  CLSS | HON-CGW-MBB                | CLSS Gateway with the enclosure | 1                             | 0.25               | 0.25                       |         |
| <b>Calculation Methods:</b>  |  |                            |                                 |                               |                    |                            |         |
| Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)                                  |  |                            |                                 |                               |                    |                            |         |
| Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)  |  |                            |                                 |                               |                    |                            |         |

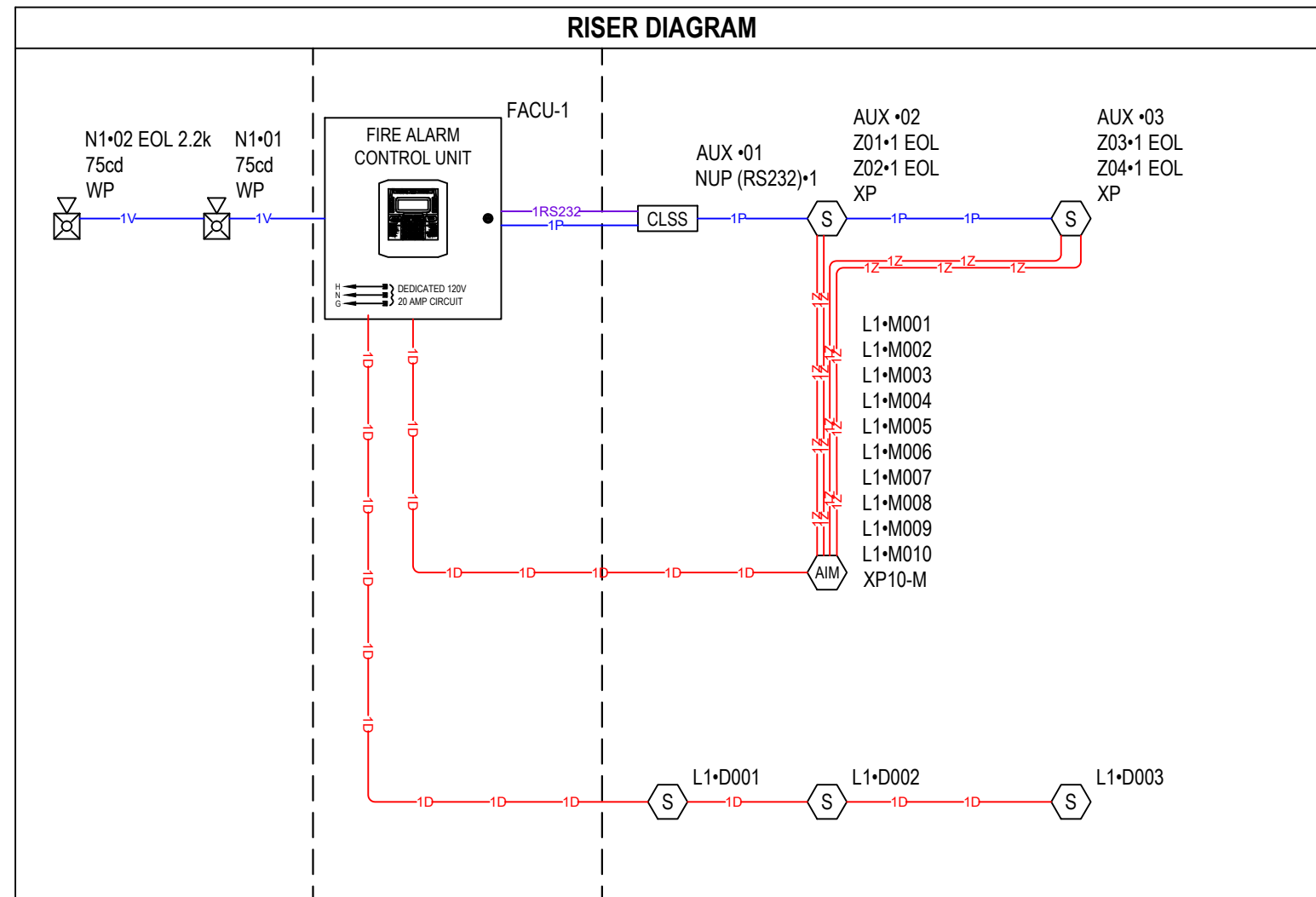
| FACU-1 N1 LUMP SUM REPORT  |  |                            |   | CIRCUIT SETTINGS              |                    | TOTALS                     |         |
|--|--|----------------------------|---|-------------------------------|--------------------|----------------------------|---------|
|  |  |                            |   | Starting Calculation Voltage: | 20.4               | Max. Voltage Drop:         | 0.04    |
| Min. Operational Voltage:  | 16   | End Of Line Voltage:       | 20.36                                   |                               |                    |                            |         |
| Max. Circuit Current (A):  | 3  | Voltage Drop Percent:      | 0.17 %                                  |                               |                    |                            |         |
| Wire Resistance (Ω/kFt):   | 2.6  | Total Circuit Current (A): | 0.396                                   |                               |                    |                            |         |
| Circuit Wiring Properties: 'V' 14/2 FPLP (NAC) 14 AWG, NAC - 2 Cond. Solid Copper FPLP Analog Unshielded |  |                            |   | Total Circuit Length (Ft):    | 17                 | Spare Current (A):         | 2.604   |
| Distance measured using drawn segment lengths with 10.00 % additional length calculated                  |  |                            |   | Total Circuit Resistance (Ω): | 0.090058           | Spare Current (A) Percent: | 86.80 % |
| DEVICE TOTALS  | Symbol   | Part No.                   | Description                             | Qty.                          | Device Current (A) | Total Current (A)          |         |
|  |  WP | WGEC24-75WR                | Horn Strobe, Red, Wall, Outdoor<br>75cd | 2                             | 0.198              | 0.396                      |         |
| <b>Calculation Methods:</b>  |  |                            |   |                               |                    |                            |         |
| Total Resistance (Ω) = Wire Resistance (Ω/Ft) x 2 x Total Circuit Length (Ft)                            |  |                            |   |                               |                    |                            |         |
| Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)                                    |  |                            |   |                               |                    |                            |         |

| <b>MODULE FUNCTION</b> |  |
|------------------------|--|
| L1•M001                | Z01 - Explosion-Proof Smoke Detector 1 - Alarm   |
| L1•M002                | Z02 - Explosion-Proof Smoke Detector 1 - Trouble |
| L1•M003                | Z03 - Explosion-Proof Smoke Detector 2 - Alarm   |
| L1•M004                | Z04 - Explosion-Proof Smoke Detector 2 - Trouble |
| L1•M005                | Spare  |
| L1•M006                | Spare  |
| L1•M007                | Spare  |
| L1•M008                | Spare  |
| L1•M009                | Spare  |
| L1•M010                | Spare  |

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SHEET DESCRIPTION:  
**FIRE ALARM SYSTEM  
MODULE FUNCTION**

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: N.T.S



PROJECT

PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

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SHEET DESCRIPTION:

FIRE ALARM SYSTEM  
RISER DIAGRAM

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: N.T.S.

SHEET:

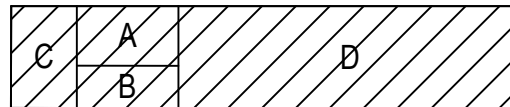
**FA-06**  
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**NOTES :**

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1" EXLOSION PROOF CONDUIT FOR FIRE ALARM WIRING IF DETERMINED CLASS 1 DIVISION 1 CLASSIFICATION BY OWNER

**KEYPLAN**



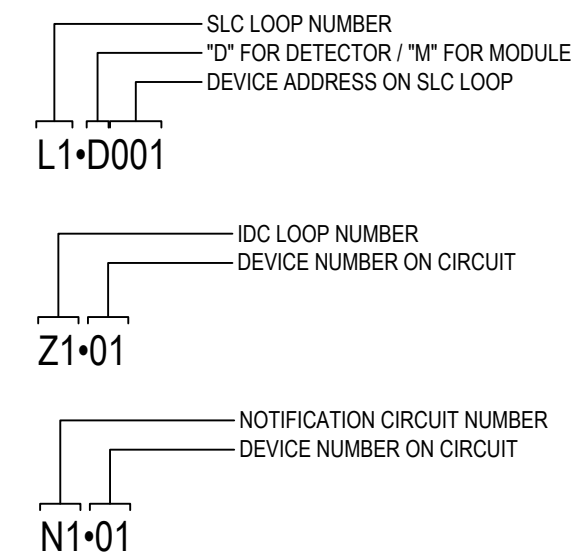
**DEVICE LEGEND**

| SYMBOL       | DESCRIPTION   |
|--------------|---|
| [FACU]       | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL                |
| [CLSS]       | CONNECTED LIFE SAFETY SERVICES (CLSS) GATEWAY FOR PLC INTERFACE |
| [SS] 120v    | OVERVOLTAGE PROTECTOR CIRCUIT PROTECTION-120V                   |
| [AIM] XP10-M | TEN INPUT MONITOR MODULE  |
| [S] XP       | EXPLOSION-PROOF SMOKE DETECTOR                                  |
| [S]          | VERY INTELLIGENT EARLY WARNING SMOKE DETECTOR, STANDARD BASE    |
| [WP]         | HORN STROBE, RED, WALL, OUTDOOR                                 |

**CABLE AND WIRE LEGEND**

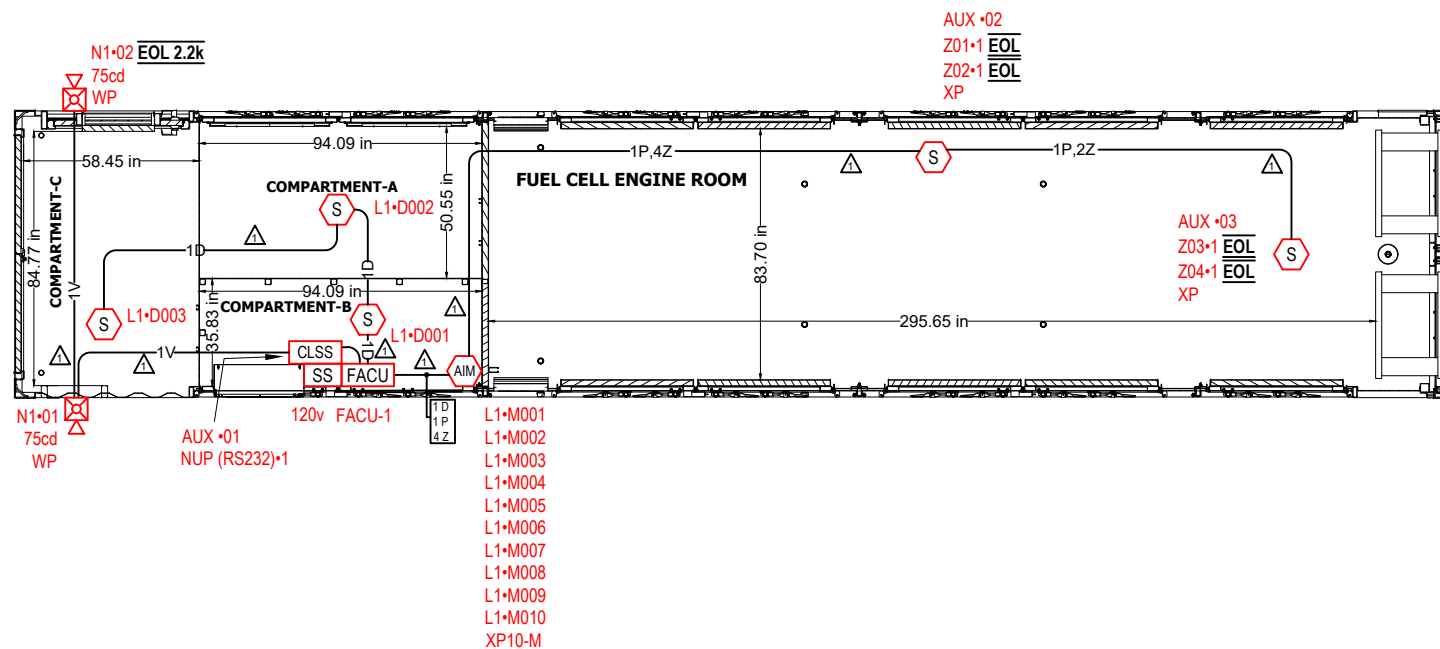
| LABEL | AWG | DESCRIPTION   |
|-------|-----|---|
| RS232 | 18  | CLSS - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED      |
| D     | 18  | SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED  |
| P     | 14  | AUX POWER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED |
| V     | 14  | NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |
| Z     | 18  | IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |

**ADDRESS LABEL CLARIFICATION**



FRONT END  
(GOOSENECK TUNNEL)

REAR END  
(DOUBLE FANS)



PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

REVISION:

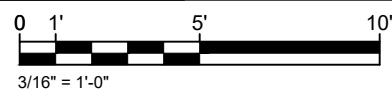
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| FIRST RELEASE |  |
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|               |  |
|               |  |

SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
HP STATIONARY - 1MW  
HYDROGEN ENGINE  
ENCLOSURE PLAN  
DIMENSIONS

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: 3/16" = 1'-0"

SHEET:  
**FA-07**  
8 OF 18

1 HP STATIONARY - 1MW HYDROGEN ENGINE ENCLOSURE PLAN - DIMENSIONS



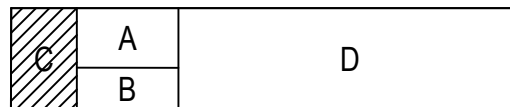


**NOTES :**



1" EXPLSION PROOF CONDUIT FOR FIRE ALARM WIRING IF DETERMINED CLASS 1 DIVISION 1 CLASSIFICATION BY OWNER

**KEYPLAN**



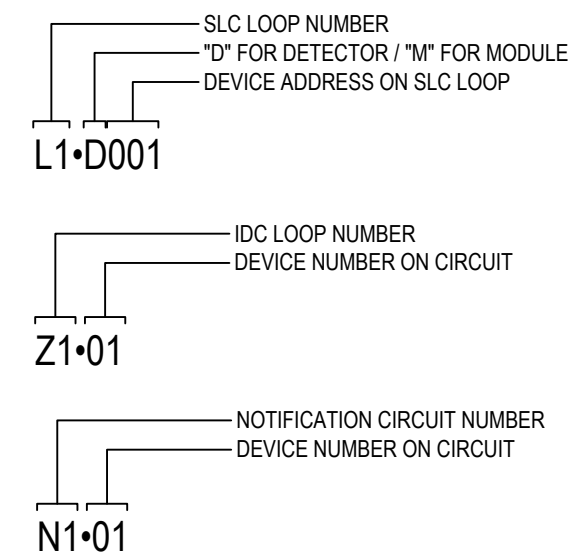
**DEVICE LEGEND**

| SYMBOL       | DESCRIPTION   |
|--------------|---|
| [FACU]       | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL                |
| [CLSS]       | CONNECTED LIFE SAFETY SERVICES (CLSS) GATEWAY FOR PLC INTERFACE |
| [SS] 120v    | OVERVOLTAGE PROTECTOR CIRCUIT PROTECTION-120V                   |
| [AIM] XP10-M | TEN INPUT MONITOR MODULE  |
| [S] XP       | EXPLOSION-PROOF SMOKE DETECTOR                                  |
| [S]          | VERY INTELLIGENT EARLY WARNING SMOKE DETECTOR, STANDARD BASE    |
| [WP]         | HORN STROBE, RED, WALL, OUTDOOR                                 |

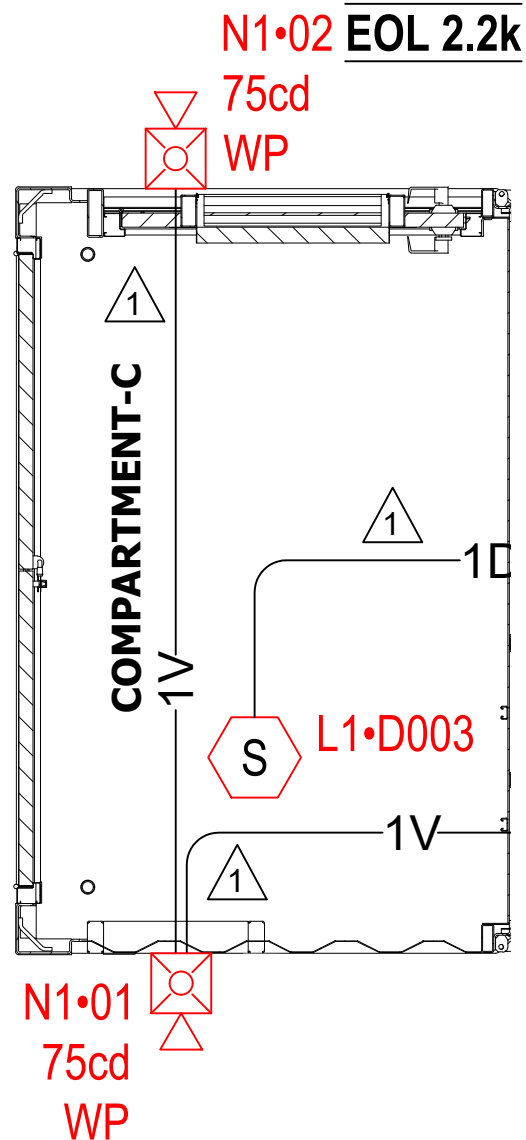
**CABLE AND WIRE LEGEND**

| LABEL | AWG | DESCRIPTION   |
|-------|-----|---|
| RS232 | 18  | CLSS - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED      |
| D     | 18  | SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED  |
| P     | 14  | AUX POWER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED |
| V     | 14  | NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |
| Z     | 18  | IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |

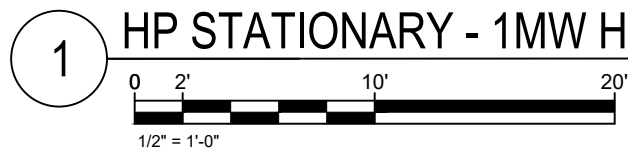
**ADDRESS LABEL CLARIFICATION**



**FRONT END  
(GOOSENECK TUNNEL)**



**HP STATIONARY - 1MW HYDROGEN ENGINE ENCLOSURE PLAN - AREA C**



PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

REVISION:

|               |   |
|---------------|---|
| FIRST RELEASE | △ |
|               | △ |
|               | △ |
|               | △ |

SHEET DESCRIPTION:

FIRE ALARM SYSTEM  
HP STATIONARY - 1MW  
HYDROGEN ENGINE  
ENCLOSURE PLAN  
AREA C

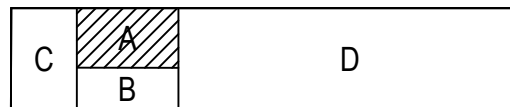
DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: 1/2" = 1'-0"  
SHEET:  
**FA-08**  
9 OF 18

**NOTES :**



1" EXLOSION PROOF CONDUIT FOR FIRE ALARM WIRING IF DETERMINED CLASS 1 DIVISION 1 CLASSIFICATION BY OWNER

**KEYPLAN**



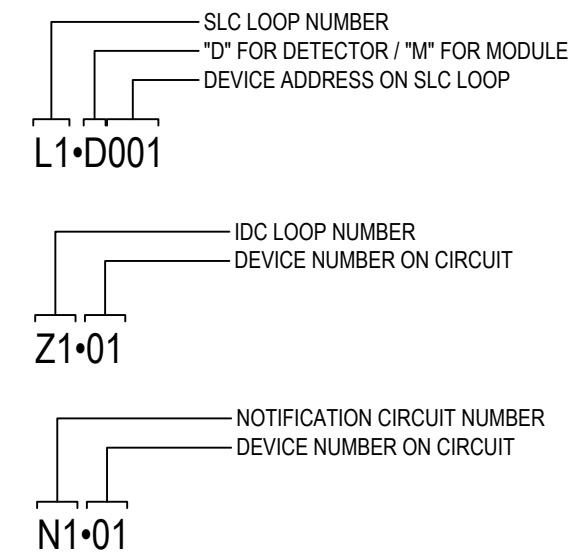
**DEVICE LEGEND**

| SYMBOL       | DESCRIPTION   |
|--------------|---|
| [FACU]       | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL                |
| [CLSS]       | CONNECTED LIFE SAFETY SERVICES (CLSS) GATEWAY FOR PLC INTERFACE |
| [SS] 120v    | OVERVOLTAGE PROTECTOR CIRCUIT PROTECTION-120V                   |
| [AIM] XP10-M | TEN INPUT MONITOR MODULE  |
| [S] XP       | EXPLOSION-PROOF SMOKE DETECTOR                                  |
| [S]          | VERY INTELLIGENT EARLY WARNING SMOKE DETECTOR, STANDARD BASE    |
| [WP]         | HORN STROBE, RED, WALL, OUTDOOR                                 |

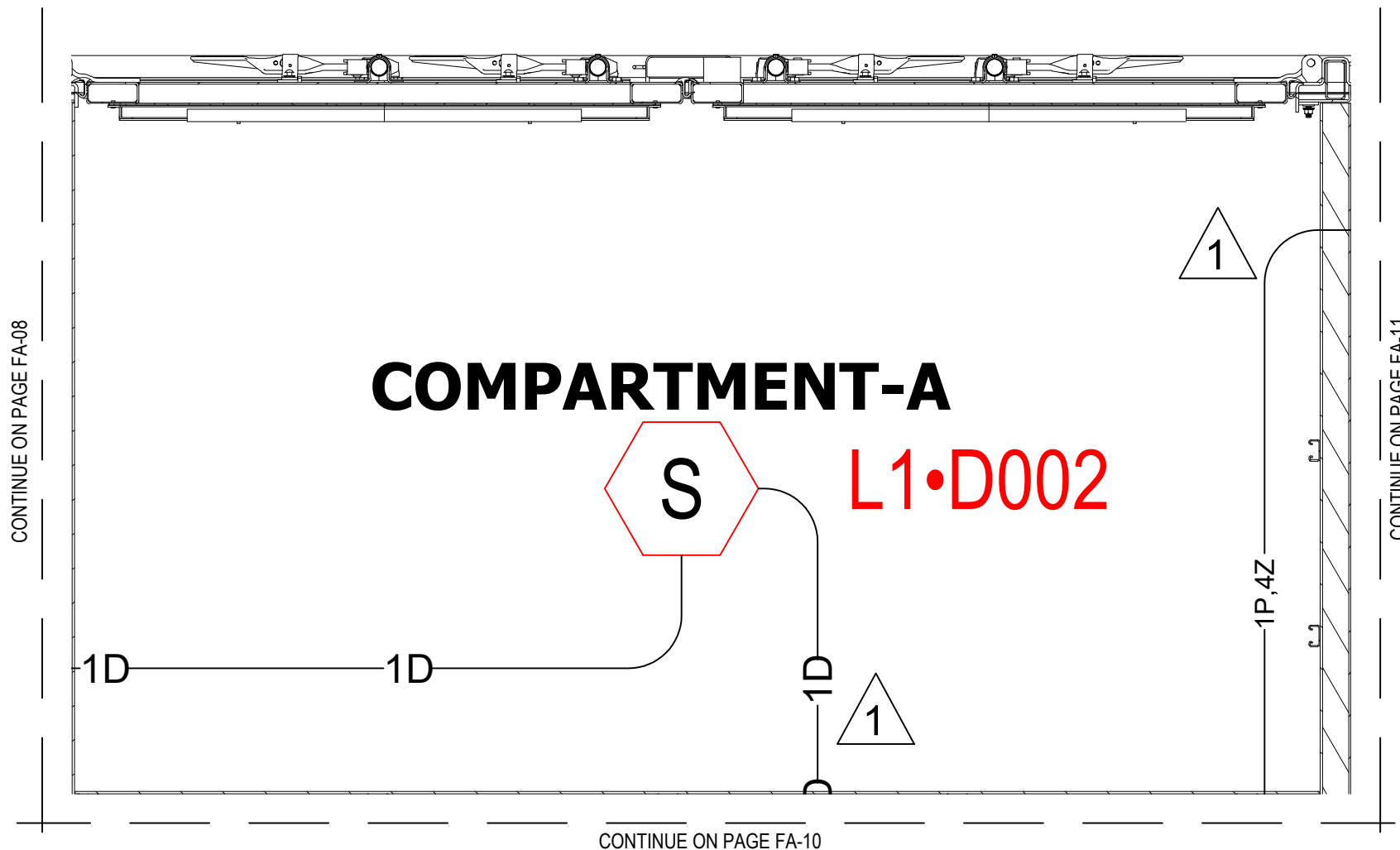
**CABLE AND WIRE LEGEND**

| LABEL | AWG | DESCRIPTION   |
|-------|-----|---|
| RS232 | 18  | CLSS - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED      |
| D     | 18  | SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED  |
| P     | 14  | AUX POWER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED |
| V     | 14  | NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |
| Z     | 18  | IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |

**ADDRESS LABEL CLARIFICATION**



**COMPARTMENT-A**



CONTINUE ON PAGE FA-08

CONTINUE ON PAGE FA-11

CONTINUE ON PAGE FA-10

PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

| REVISION | FIRST RELEASE |
|----------|---------------|
| △        |               |
| △        |               |
| △        |               |
| △        |               |

SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
HP STATIONARY - 1MW  
HYDROGEN ENGINE  
ENCLOSURE PLAN  
AREA A

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: 1" = 1'-0"

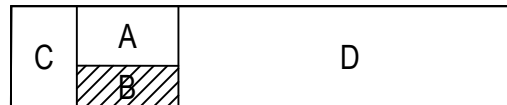
SHEET:  
**FA-09**  
10 OF 18

**NOTES :**



1" EXOSION PROOF CONDUIT FOR FIRE ALARM WIRING IF DETERMINED CLASS 1 DIVISION 1 CLASSIFICATION BY OWNER

**KEYPLAN**



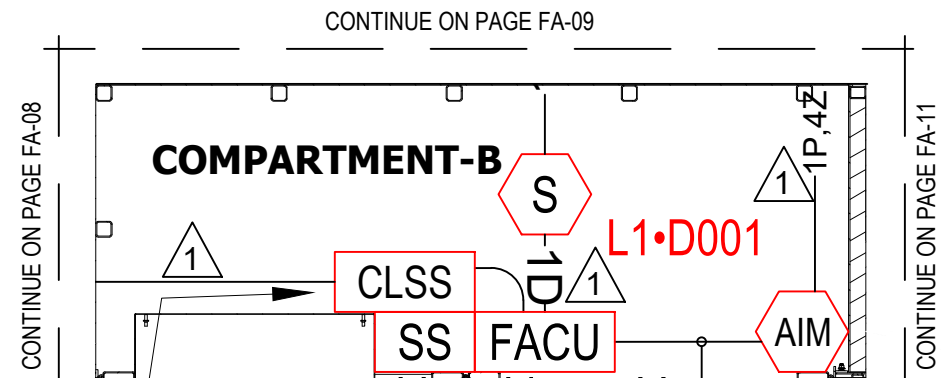
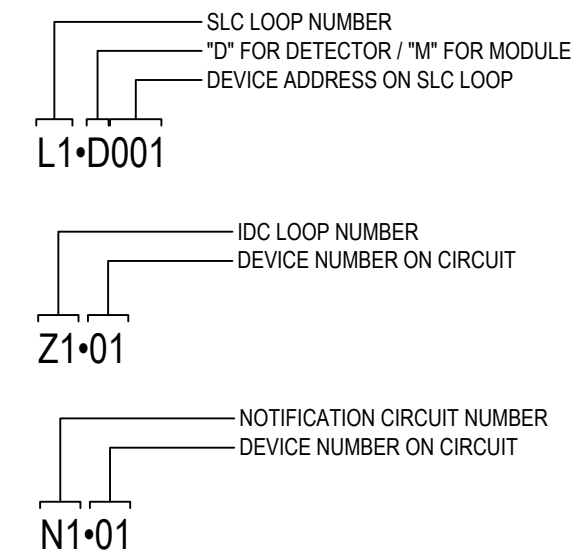
**DEVICE LEGEND**

| SYMBOL       | DESCRIPTION   |
|--------------|---|
| [FACU]       | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL                |
| [CLSS]       | CONNECTED LIFE SAFETY SERVICES (CLSS) GATEWAY FOR PLC INTERFACE |
| [SS] 120v    | OVERVOLTAGE PROTECTOR CIRCUIT PROTECTION-120V                   |
| [AIM] XP10-M | TEN INPUT MONITOR MODULE  |
| [S] XP       | EXPLOSION-PROOF SMOKE DETECTOR                                  |
| [S]          | VERY INTELLIGENT EARLY WARNING SMOKE DETECTOR, STANDARD BASE    |
| [WP]         | HORN STROBE, RED, WALL, OUTDOOR                                 |

**CABLE AND WIRE LEGEND**

| LABEL | AWG | DESCRIPTION   |
|-------|-----|---|
| RS232 | 18  | CLSS - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED      |
| D     | 18  | SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED  |
| P     | 14  | AUX POWER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED |
| V     | 14  | NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |
| Z     | 18  | IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |

**ADDRESS LABEL CLARIFICATION**



- AUX •01
- NUP (RS232)•1
- 120v FACU-1
- 1 D
- 1 P
- 4 Z
- L1•M001
- L1•M002
- L1•M003
- L1•M004
- L1•M005
- L1•M006
- L1•M007
- L1•M008
- L1•M009
- L1•M010
- XP10-M

PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

| REVISION:     |
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| FIRST RELEASE |
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SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
HP STATIONARY - 1MW  
HYDROGEN ENGINE  
ENCLOSURE PLAN  
AREA B

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: 1/2" = 1'-0"

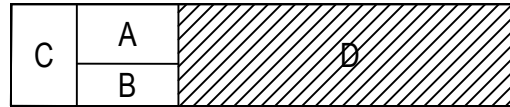
SHEET:  
**FA-10**  
11 OF 18

**NOTES :**



1" EXLOSION PROOF CONDUIT FOR FIRE ALARM WIRING IF DETERMINED CLASS 1 DIVISION 1 CLASSIFICATION BY OWNER

**KEYPLAN**



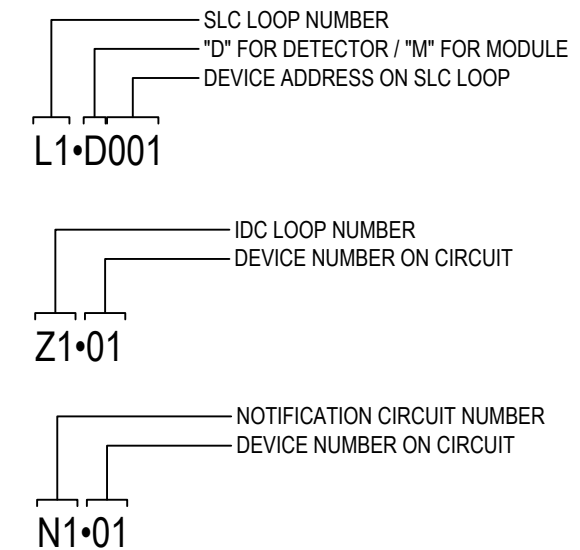
**DEVICE LEGEND**

| SYMBOL       | DESCRIPTION   |
|--------------|---|
| [FACU]       | INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL                |
| [CLSS]       | CONNECTED LIFE SAFETY SERVICES (CLSS) GATEWAY FOR PLC INTERFACE |
| [SS] 120v    | OVERVOLTAGE PROTECTOR CIRCUIT PROTECTION-120V                   |
| [AIM] XP10-M | TEN INPUT MONITOR MODULE  |
| [S] XP       | EXPLOSION-PROOF SMOKE DETECTOR                                  |
| [S]          | VERY INTELLIGENT EARLY WARNING SMOKE DETECTOR, STANDARD BASE    |
| [WP]         | HORN STROBE, RED, WALL, OUTDOOR                                 |

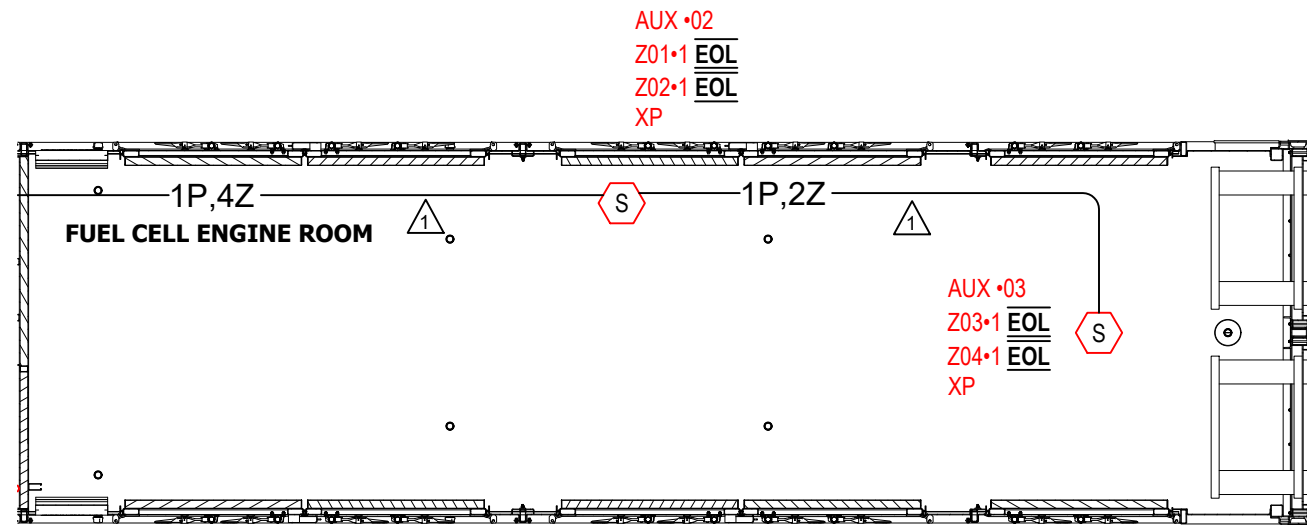
**CABLE AND WIRE LEGEND**

| LABEL | AWG | DESCRIPTION   |
|-------|-----|---|
| RS232 | 18  | CLSS - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED      |
| D     | 18  | SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED  |
| P     | 14  | AUX POWER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED |
| V     | 14  | NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |
| Z     | 18  | IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED       |

**ADDRESS LABEL CLARIFICATION**



CONTINUE ON PAGE FA-10



PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

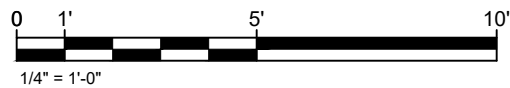
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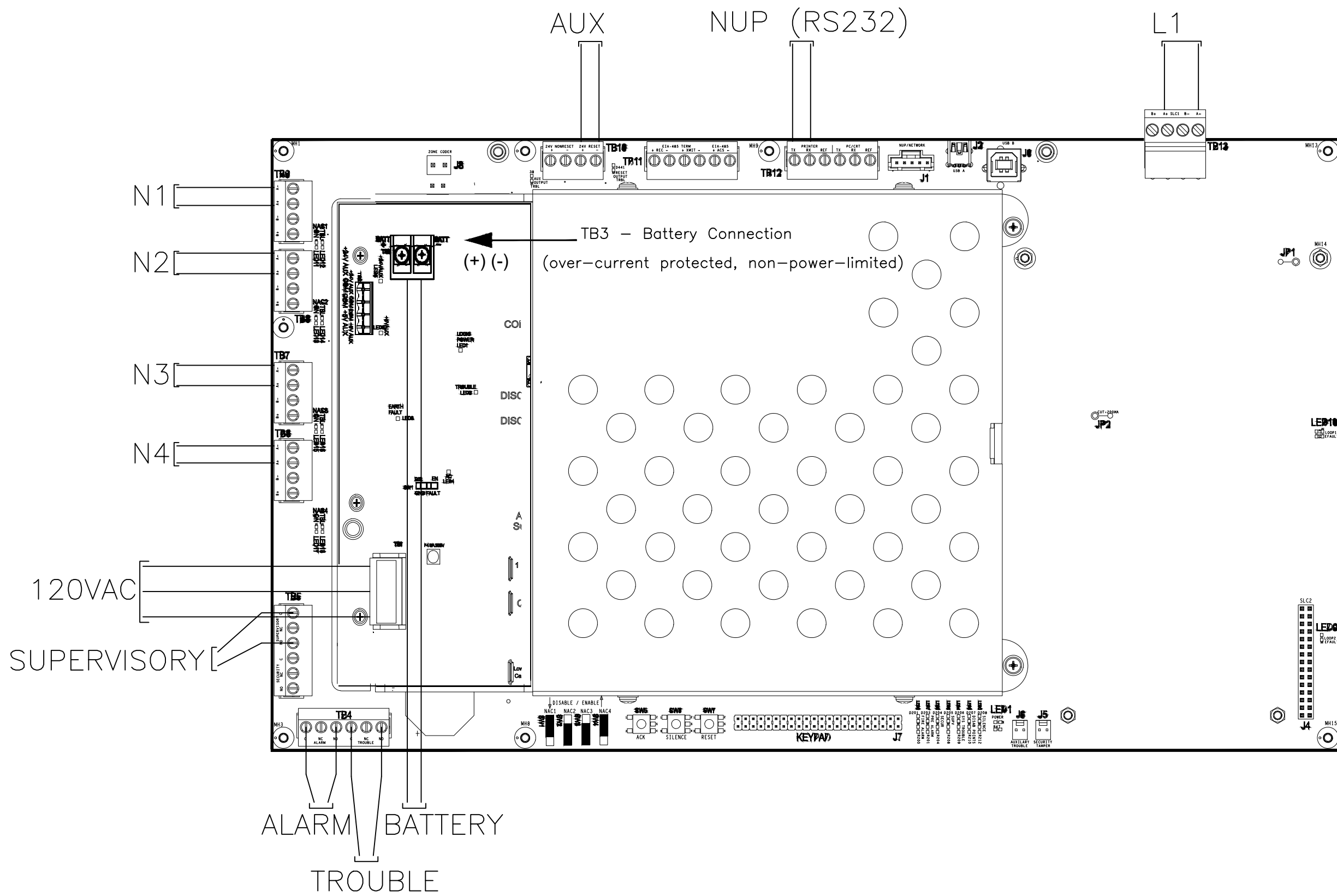
SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
HP STATIONARY - 1MW  
HYDROGEN ENGINE  
ENCLOSURE PLAN  
AREA D

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: 1/4" = 1'-0"

SHEET:  
**FA-11**  
12 OF 18

**1 HP STATIONARY - 1MW HYDROGEN ENGINE ENCLOSURE PLAN - AREA D**





**NFS-320 / FACP-1 WIRING**  
 NOT TO SCALE

PROJECT  
**PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT**

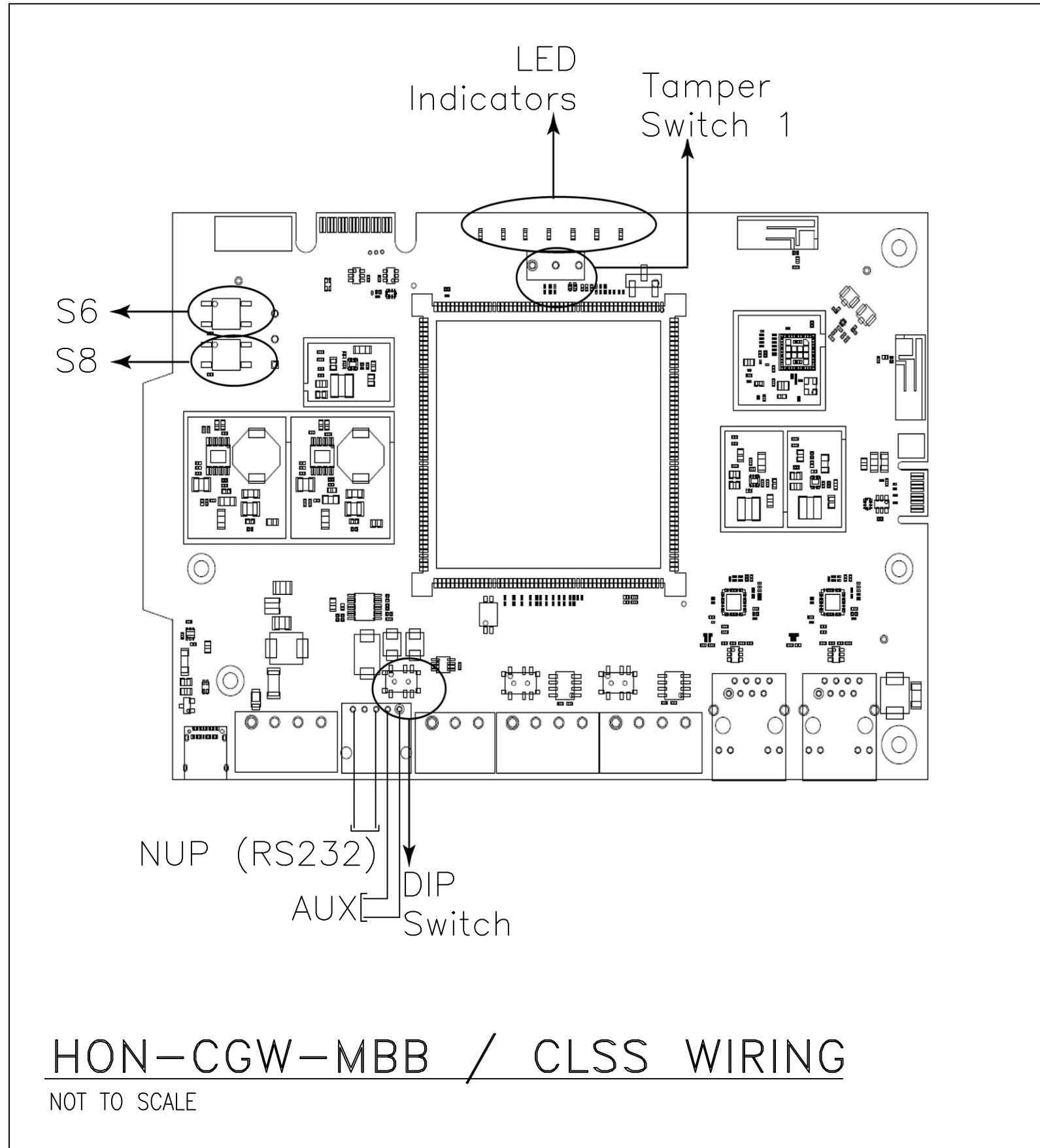
REVISION:

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|---------------|---|
| FIRST RELEASE | △ |
|               | △ |
|               | △ |
|               | △ |

SHEET DESCRIPTION:  
 FIRE ALARM SYSTEM  
 NFS-320 / FACP-1  
 WIRING DIAGRAM

DRAWN BY: THAIS REZENDE  
 DATE: 10.21.2022  
 SCALE: N.T.S.

SHEET:  
**FA-12**  
 13 OF 18



PROJECT

**PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT**

| REVISION | FIRST RELEASE |
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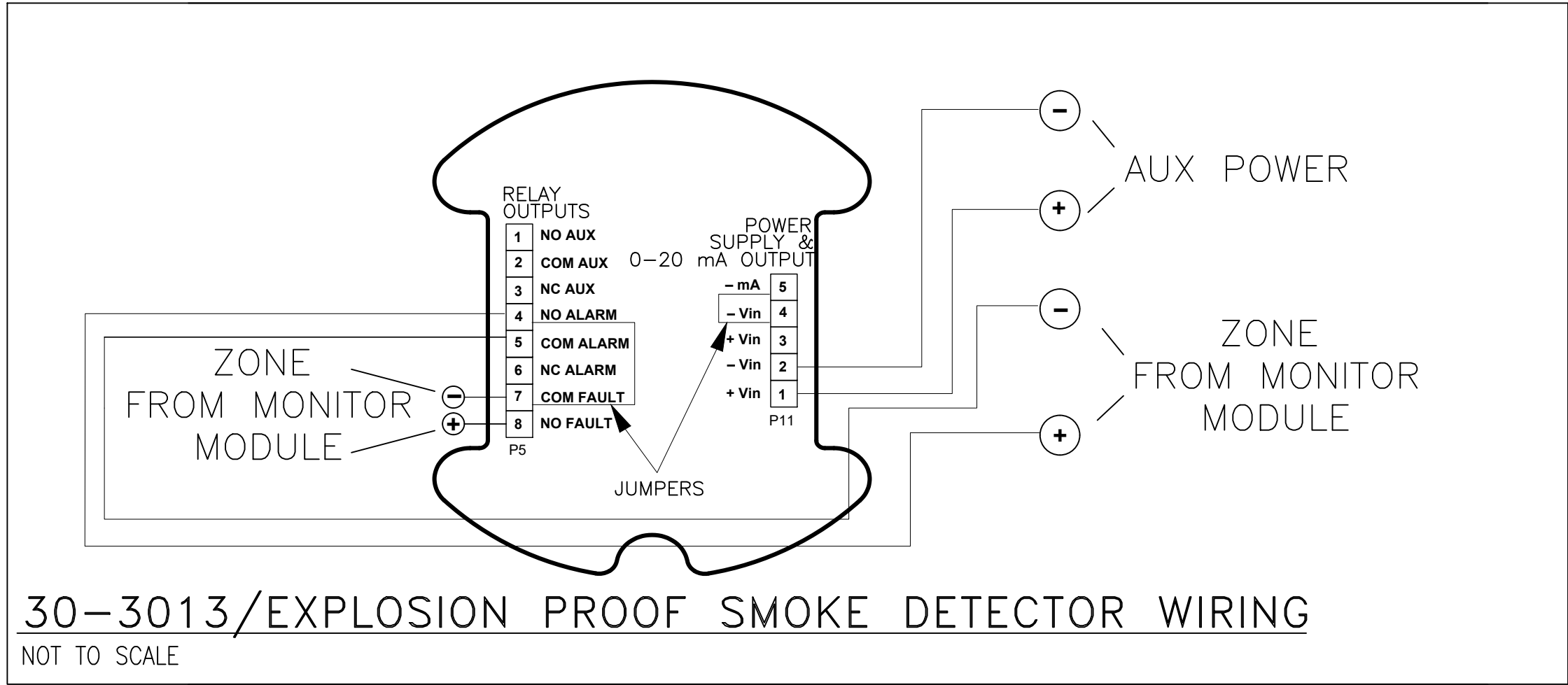
SHEET DESCRIPTION:

FIRE ALARM SYSTEM  
 HON-CGW-MBB / CLSS  
 WIRING DIAGRAM

DRAWN BY: THAIS REZENDE  
 DATE: 10.21.2022  
 SCALE: N.T.S

SHEET:

**FA-13**  
 14 OF 18



PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

| REVISION      |
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| FIRST RELEASE |
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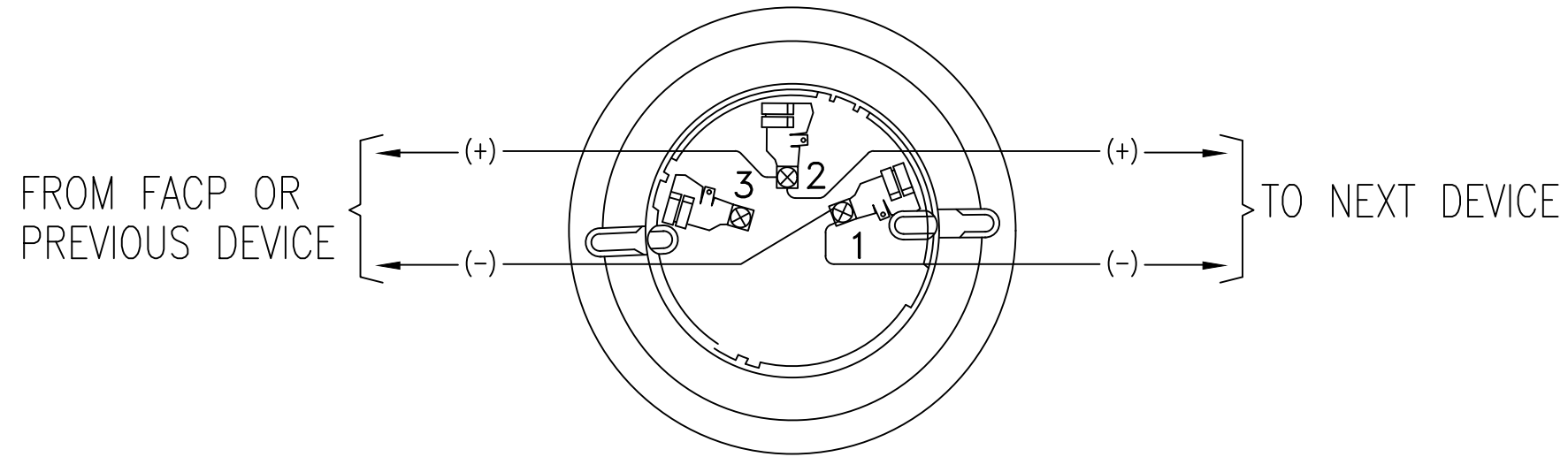
SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
30-3013 / EXPLOSION  
PROOF SMOKE  
DETECTOR  
WIRING DIAGRAM

DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: N.T.S

SHEET:  
**FA-14**  
15 OF 18

NOTE: DO NOT LOOP WIRE UNDER TERM 1 OR TERM 2. BREAK WIRE RUN TO PROVIDE SUPERVISION OF CONNECTIONS.

NOTE: SEE FLOORPLANS FOR DEVICE ADDRESS



## SMOKE DETECTOR WIRING

NOT TO SCALE

NOTE: IF THIS IS THE LAST DEVICE, THE SLC DOES NOT REQUIRE AN END OF LINE RESISTOR. IF THE SLC IS CLASS A, RETURN THE LOOP WIRE TO THE FACP.

PROJECT

PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

REVISION:  
FIRST RELEASE



SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
SMOKE DETECTOR  
WIRING DIAGRAM

DRAWN BY: THAIS REZENDE

DATE: 10.21.2022

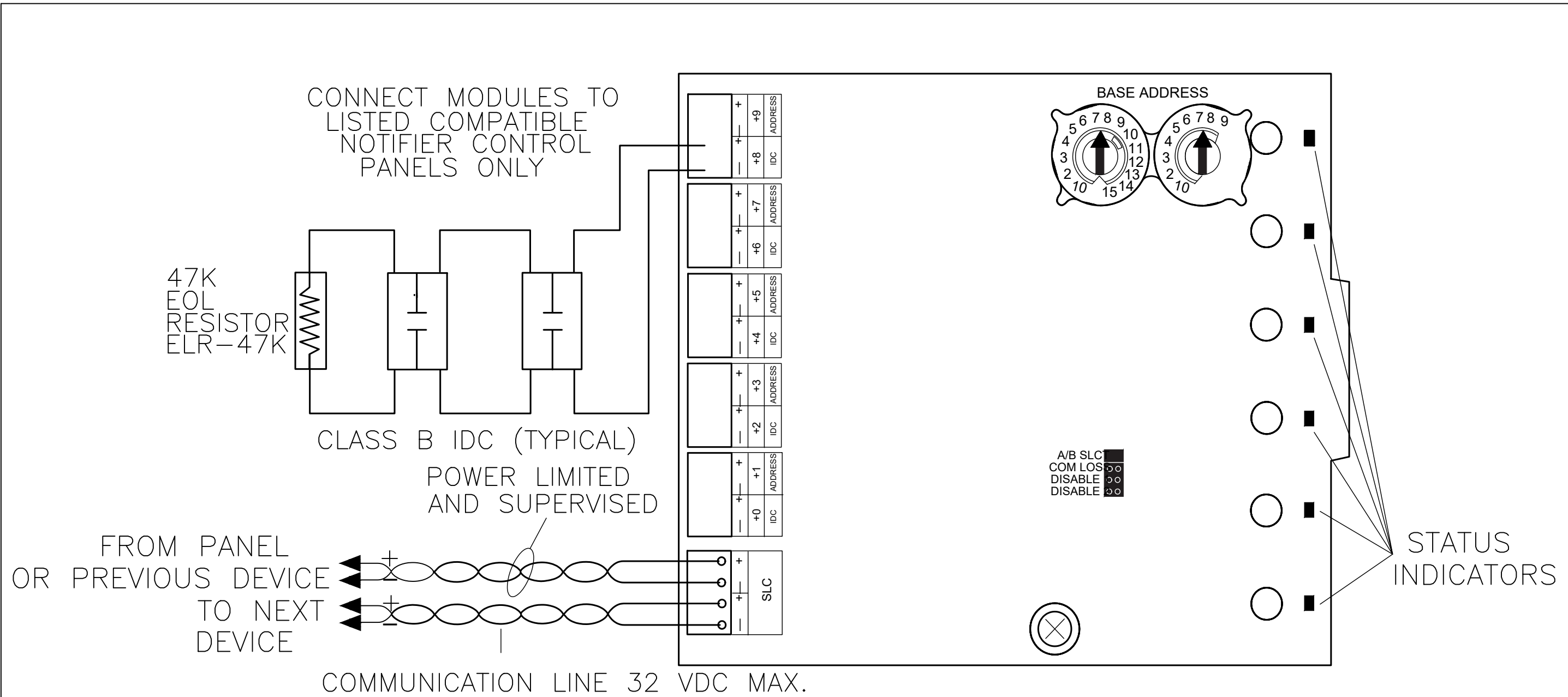
SCALE: N.T.S.

SHEET:

**FA-15**

16 OF 18





# XP10-M/TEN INPUT MONITOR MODULE

NOT TO SCALE

PROJECT  
**PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT**

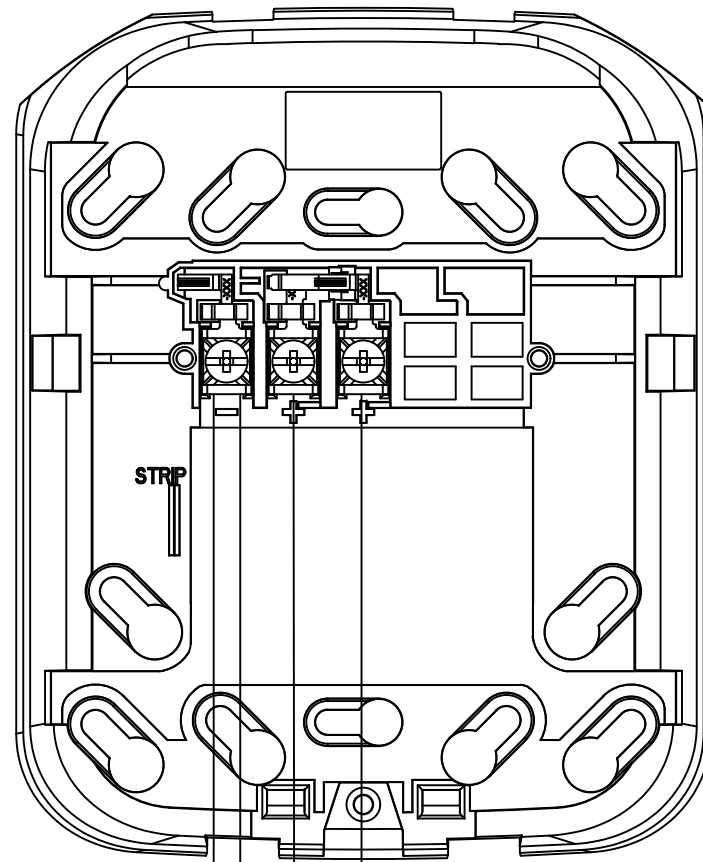
REVISION:

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| FIRST RELEASE |
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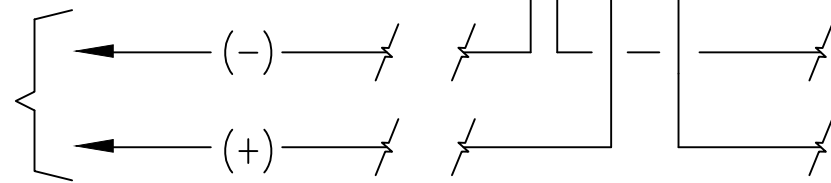
SHEET DESCRIPTION:  
 FIRE ALARM SYSTEM  
 XP10-M / TEN INPUT  
 MONITOR MODULE  
 WIRING DIAGRAM

DRAWN BY: THAIS REZENDE  
 DATE: 10.21.2022  
 SCALE: N.T.S.

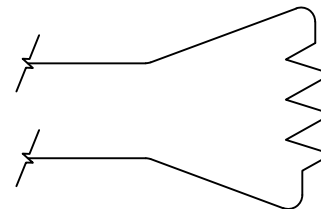
SHEET:  
**FA-16**  
 17 OF 18



FROM FACP OR  
REMOTE POWER  
SUPPLY



TO NEXT  
NOTIFICATION  
APPLIANCE



PLACE EOL AT LAST NOTIFICATION  
APPLIANCE ON THE CIRCUIT  
ACCORDING TO THE FLOORPLANS.

## WALL MOUNT HORN/STROBE WIRING

NOT TO SCALE

PROJECT  
PLUG POWER - HYDROGEN ENGINE DESIGN LAYOUT

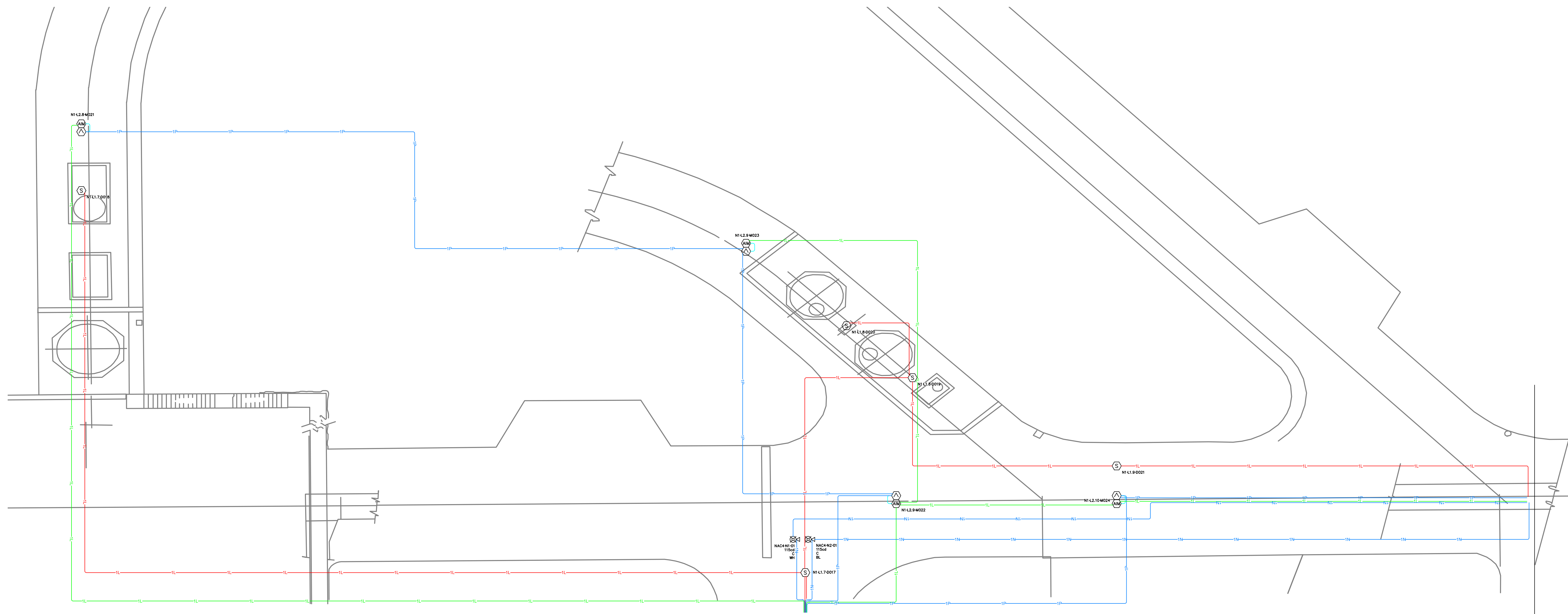
| REVISION:     |
|---------------|
| FIRST RELEASE |
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SHEET DESCRIPTION:  
FIRE ALARM SYSTEM  
WALL MOUNT  
HORN/STROBE  
WIRING DIAGRAM

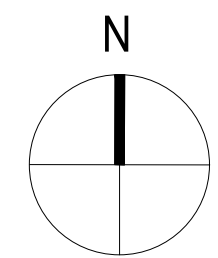
DRAWN BY: THAIS REZENDE  
DATE: 10.21.2022  
SCALE: N.T.S.

SHEET:  
**FA-17**  
18 OF 18

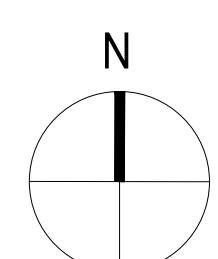




1 LEVEL 0 FIRE ALARM FLOOR PLAN - BOTTOM SECTION  
3/32" = 1'-0"



2 LEVEL 0 FIRE ALARM FLOOR PLAN - UPPER SECTION  
3/32" = 1'-0"

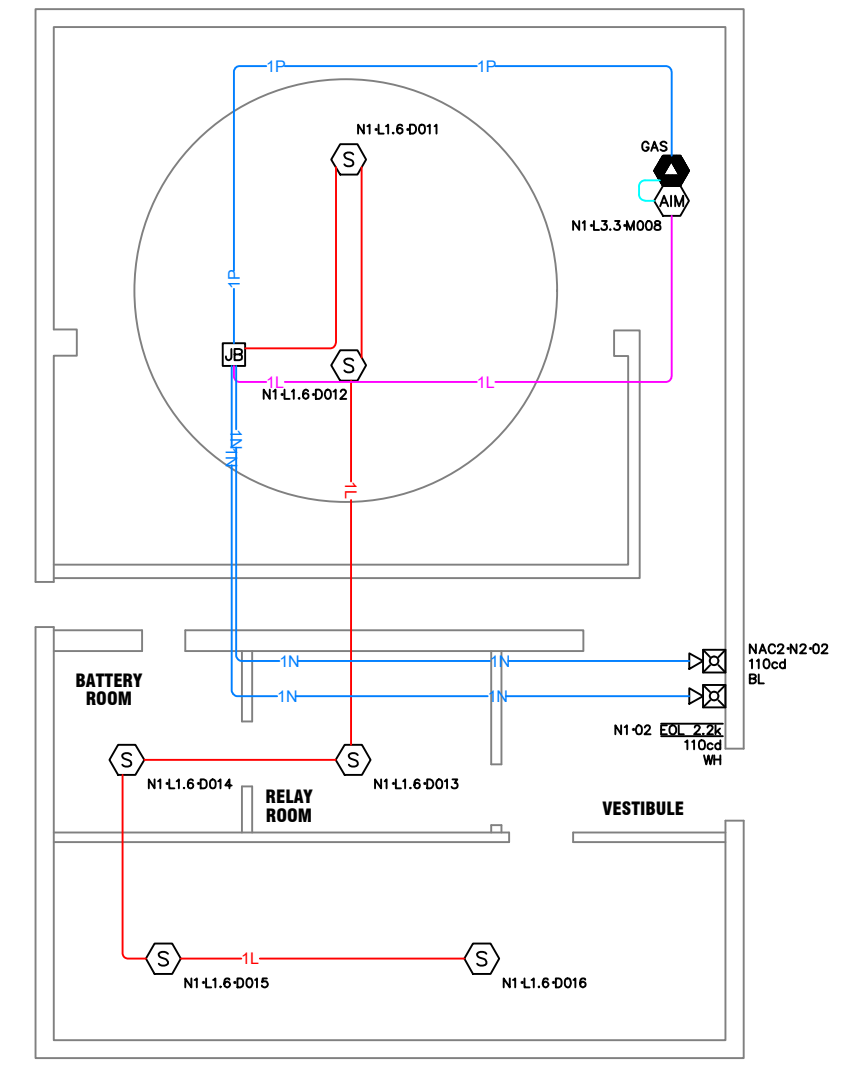
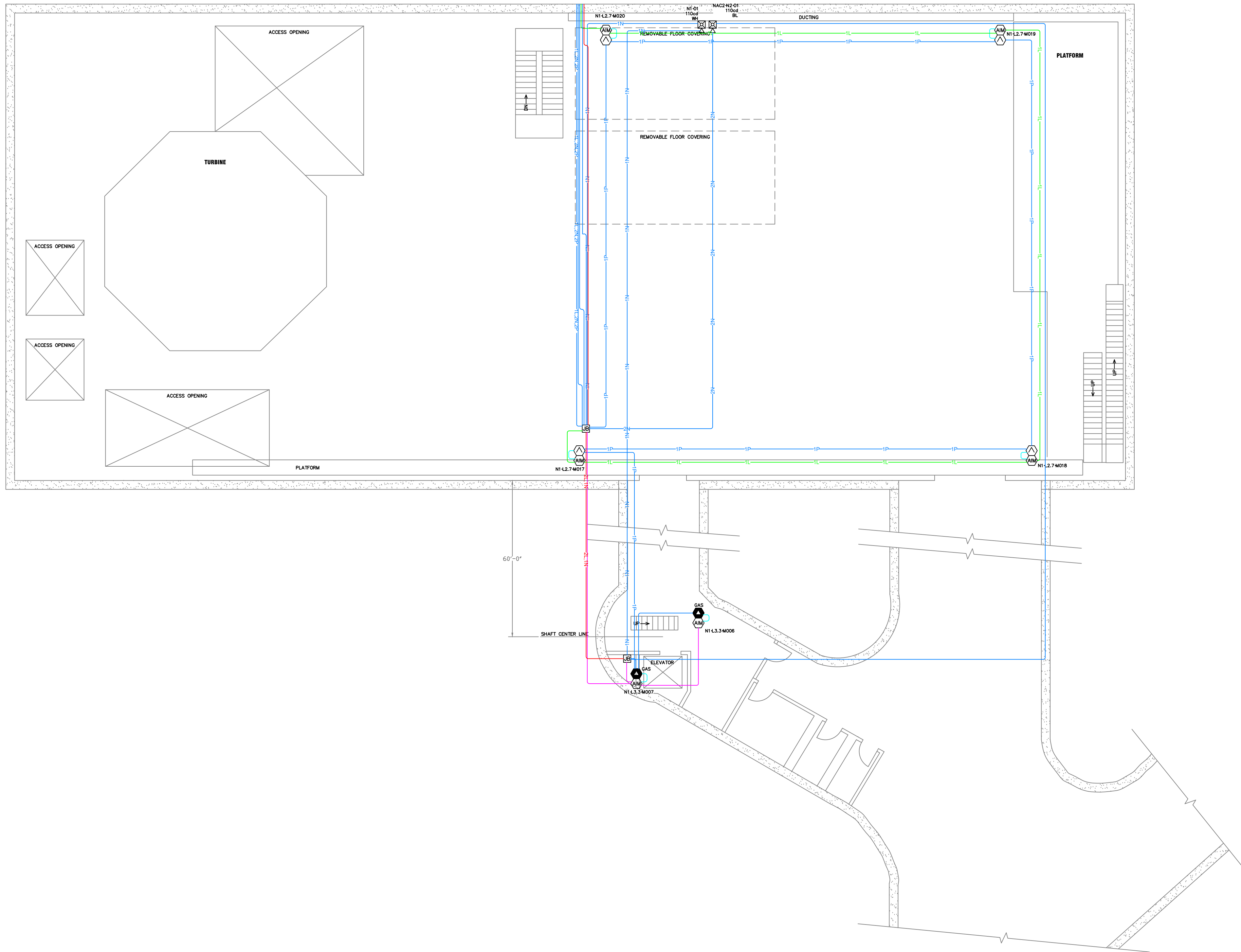


| DEVICE LEGEND |   |
|---------------|---|
| SYMBOL        | DESCRIPTION   |
|               | FACP, ADDRESSABLE, CPU2-3030D, 1X LCM-320, 1X LEM-320, AMPS-24, NCM-W                       |
|               | 6.0 A OR 10.0 A ADDRESSABLE CHARGING POWER SUPPLY   |
|               | ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT |
|               | ADDRESSABLE MINI MONITOR MODULE   |
|               | ANALOG INPUT MODULE   |
|               | ADDRESSABLE CONTROL MODULE W/ FLASHSCAN, 1 CLASS A OR 1 CLASS B                             |
|               | RELEASING CONTROL MODULE  |
|               | ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS                                |
|               | INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R                                  |
|               | FLAME DETECTOR, UV, 24 VDC  |
|               | ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY                        |
|               | GAS DETECTOR  |
|               | 2-WIRE, WALL, HORN STROBE   |
|               | 2-WIRE, CEILING, HORN STROBE, RED   |
|               | STROBE, RED   |

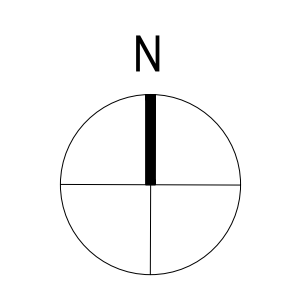
| CABLE AND WIRE LEGEND |                                  |
|-----------------------|----------------------------------|
| LABEL                 | DESCRIPTION                      |
|                       | LOOP 1 - FIRE ALARM DEVICES      |
|                       | LOOP 2 - FLAME DETECTORS         |
|                       | LOOP 3 - GAS DETECTORS           |
|                       | LOOP 4 - FIRE SUPPRESSION SYSTEM |
|                       | NAC                              |
|                       | AUXILIARY                        |
|                       | IDC                              |

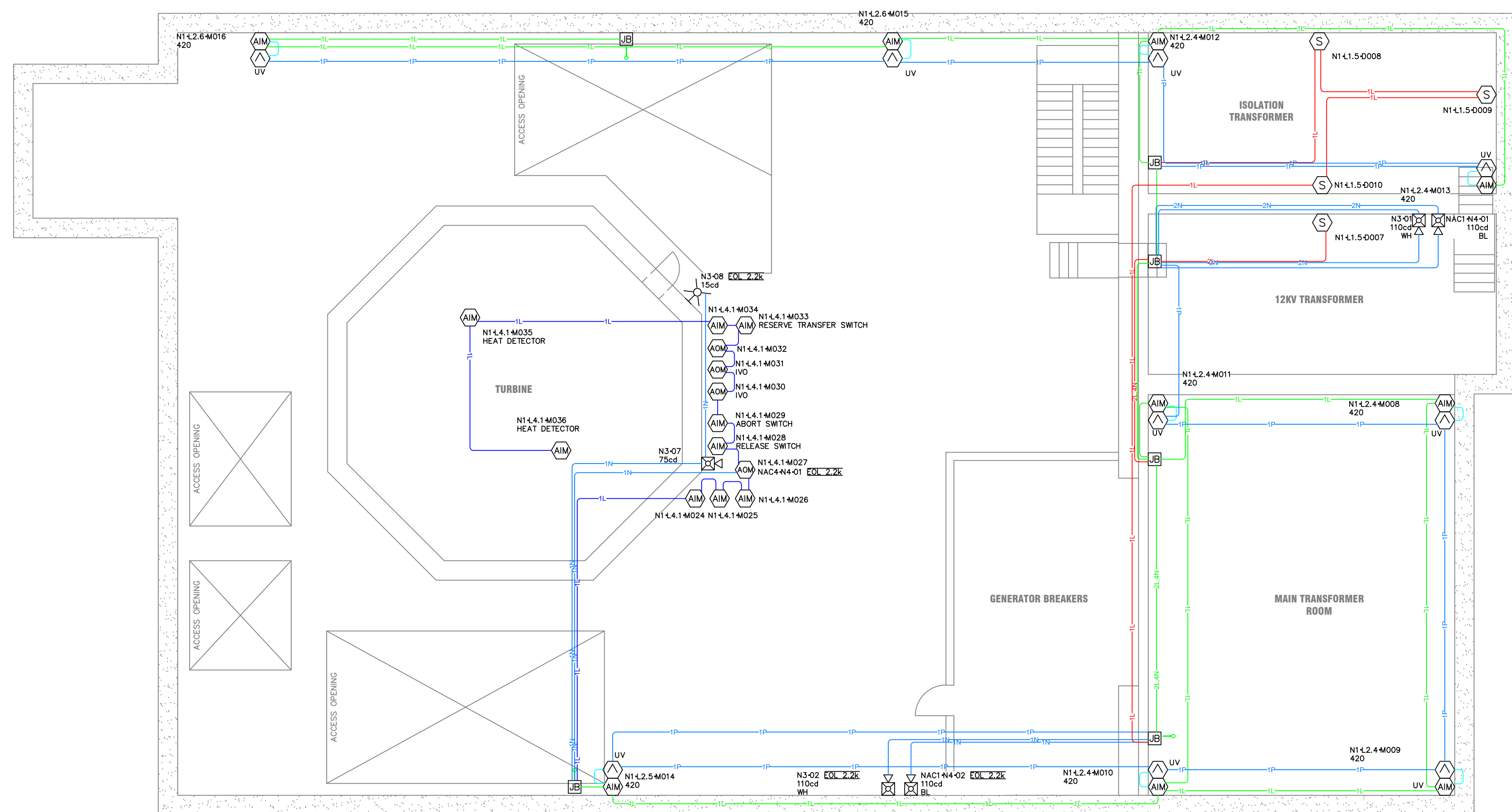
| DEVICE LEGEND |   |
|---------------|---|
| SYMBOL        | DESCRIPTION   |
|               | FACP, ADDRESSABLE, CPU2-3030D, 1X LCM-320, 1X LEM-320, AMPS-24, NCM-W                       |
|               | 6.0 A OR 10.0 A ADDRESSABLE CHARGING POWER SUPPLY   |
|               | ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT |
|               | ADDRESSABLE MINI MONITOR MODULE   |
|               | ANALOG INPUT MODULE   |
|               | ADDRESSABLE CONTROL MODULE W/ FLASHSCAN, 1 CLASS A OR 1 CLASS B                             |
|               | RELEASING CONTROL MODULE  |
|               | ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS                                |
|               | INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R                                  |
|               | FLAME DETECTOR, UV, 24 VDC  |
|               | ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY                        |
|               | GAS DETECTOR  |
|               | 2-WIRE, WALL, HORN STROBE   |
|               | 2-WIRE, CEILING, HORN STROBE, RED   |
|               | STROBE, RED   |

| CABLE AND WIRE LEGEND |                                  |
|-----------------------|----------------------------------|
| LABEL                 | DESCRIPTION                      |
|                       | LOOP 1 - FIRE ALARM DEVICES      |
|                       | LOOP 2 - FLAME DETECTORS         |
|                       | LOOP 3 - GAS DETECTORS           |
|                       | LOOP 4 - FIRE SUPPRESSION SYSTEM |
|                       | NAC                              |
|                       | AUXILIARY                        |
|                       | IDC                              |

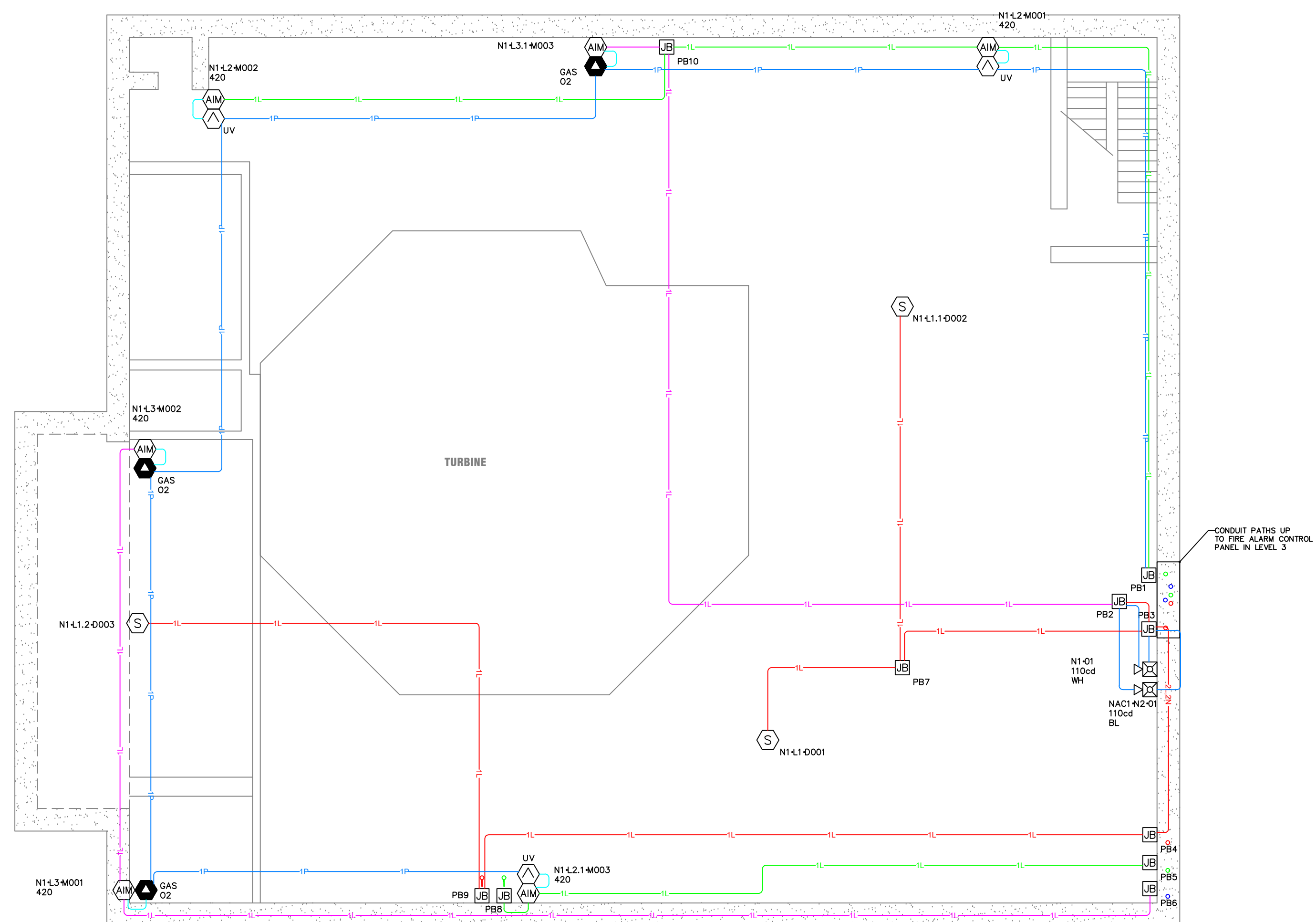


1 LEVEL 1 FIRE ALARM FLOOR PLAN  
3/32" = 1'-0"





1 LEVEL 2 FIRE ALARM FLOOR PLAN  
1/8" = 1'-0"



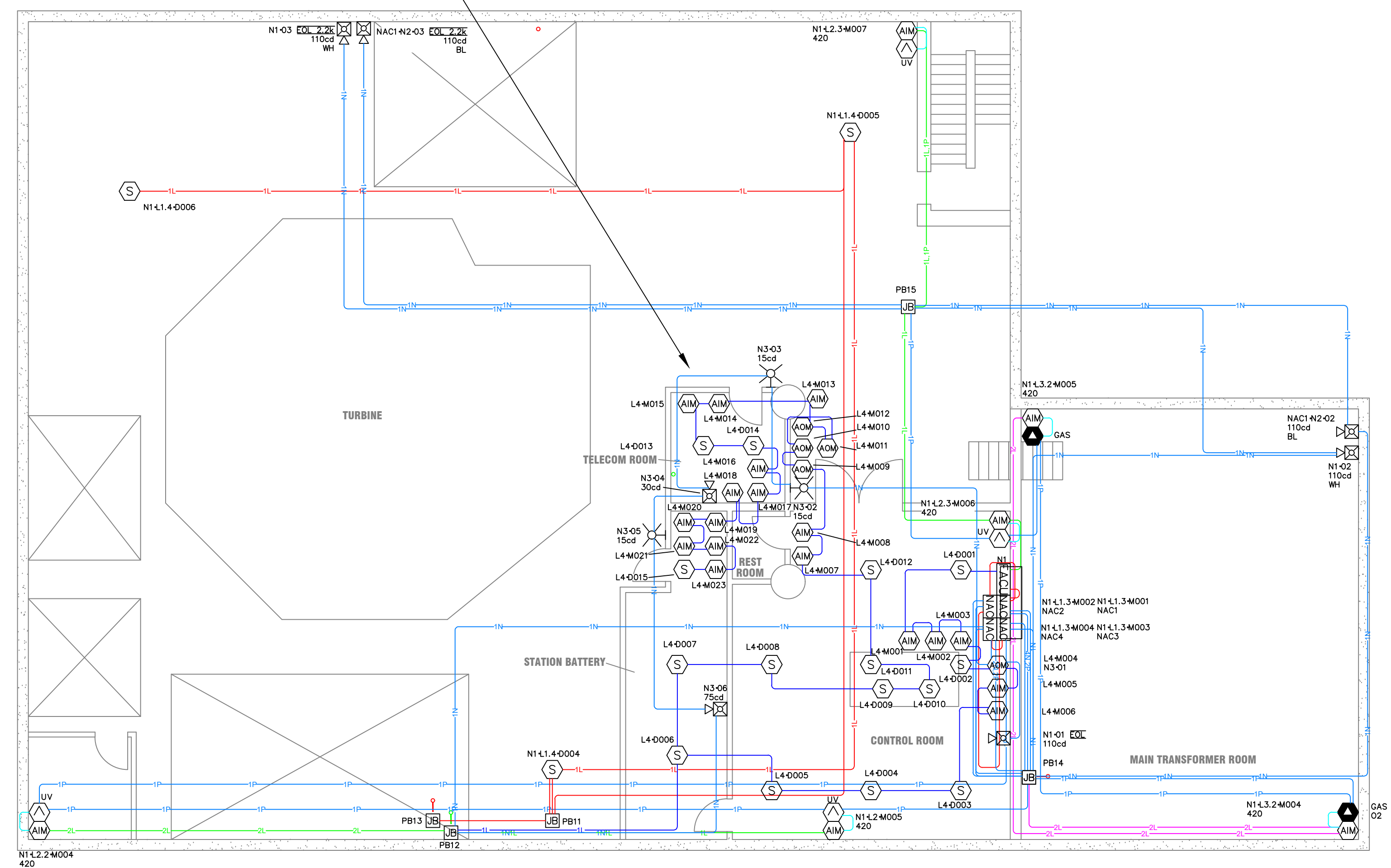
3 LEVEL 4 FIRE ALARM FLOOR PLAN  
1/8" = 1'-0"

DEVICE'S FUNCTION - CONTROL ROOM

| Device Label | Function                |
|--------------|-------------------------|
| L1-M005      | BY-PASS SWITCH          |
| L1-D009      | LOW CEILING DETECTOR    |
| L1-D010      | LOW CEILING DETECTOR    |
| L1-M007      | RELEASE SWITCH          |
| L1-M008      | ABORT SWITCH            |
| L1-M010      | IVO                     |
| L1-M011      | IVO                     |
| L1-M013      | RESERVE TRANSFER SWITCH |
| L1-M014      | ABORT SWITCH            |
| L1-M015      | RELEASE SWITCH          |
| L1-M020      | ABORT SWITCH            |
| L1-M021      | RELEASE SWITCH          |

| DEVICE LEGEND |   |
|---------------|---|
| SYMBOL        | DESCRIPTION   |
| FACP          | FACP, ADDRESSABLE, CPU2-3030D, 1X LCM-320, 1X LEM-320, AMPS-24, NCM-W                       |
| NAC           | 6.0 A OR 10.0 A ADDRESSABLE CHARGING POWER SUPPLY   |
| AM            | ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT |
| AMM           | ADDRESSABLE MINI MONITOR MODULE   |
| AMV           | ANALOG INPUT MODULE   |
| ACM           | ADDRESSABLE CONTROL MODULE W/ FLASHSCAN, 1 CLASS A OR 1 CLASS B                             |
| ADM           | RELEASING CONTROL MODULE  |
| ARM           | ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS                                |
| IS            | INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R                                  |
| UV            | FLAME DETECTOR, UV, 24 VDC  |
| SS            | ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.                       |
| GAS           | GAS DETECTOR  |
| W             | 2-WIRE, WALL, HORN STROBE   |
| C             | 2-WIRE, CEILING, HORN STROBE, RED   |
| R             | STROBE, RED   |

| CABLE AND WIRE LEGEND |                                  |
|-----------------------|----------------------------------|
| LABEL                 | DESCRIPTION                      |
| L                     | LOOP 1 - FIRE ALARM DEVICES      |
| L                     | LOOP 2 - FLAME DETECTORS         |
| L                     | LOOP 3 - GAS DETECTORS           |
| L                     | LOOP 4 - FIRE SUPPRESSION SYSTEM |
| N                     | NAC                              |
| P                     | AUXILIARY                        |
| Z                     | IDC                              |



2 LEVEL 3 FIRE ALARM FLOOR PLAN  
1/8" = 1'-0"

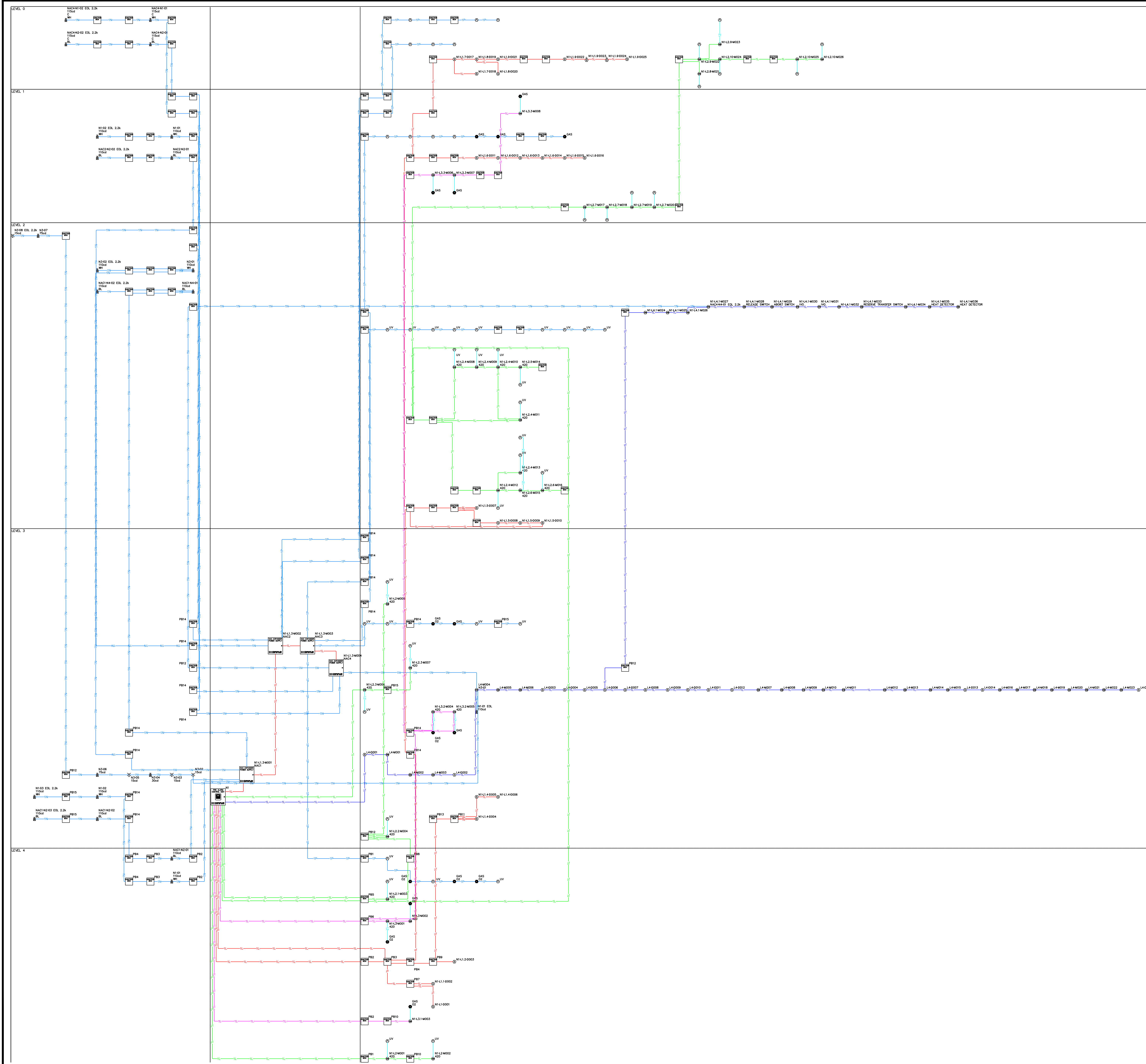
| PANEL N1 (NFS2-3030D (FACP)) BATTERY CALCULATION |        |                        |   |   |                  |                  |                  |           |
|--|--------|------------------------|---|---|------------------|------------------|------------------|-----------|
| (SECONDARY POWER SOURCE REQUIREMENTS)            |        |                        |   |   |                  |                  |                  |           |
| PANEL POWER SUPPLY MAX CURRENT = 5A              |        |                        |   | TOTAL USED CAPACITY (IN ALARM) = 1.4923A (29.85 %)  |                  |                  |                  |           |
|  |        | STANDBY CURRENT (AMPS) |   | SECONDARY ALARM CURRENT (AMPS)  |                  |                  |                  |           |
|  | QTY    | PART NO.               | DESCRIPTION   | CURRENT DRAW (A)  | TOTAL (A)        | CURRENT DRAW (A) | TOTAL            |           |
| PANEL COMPONENTS                                 | 1      | ACPS-610               | 6.0 A or 10.0 A Addressable Charging Power Supply   | 0.09  | 0.09             | 0.09             | 0.09             |           |
|  | 1      | AMPS-24                | Addressable Power Supply/Battery Charger  | 0.13  | 0.13             | 0                | 0                |           |
|  | 1      | BACNET-GW-3            | BACnet Gateway  | 0.125   | 0.125            | 0.125            | 0.125            |           |
|  | 1      | CPU2-3030D             | NFS2-3030 Fire Alarm Control Panel Main Board (Central Processing Unit), 120V Power, Includes Chassis, Display Option | 0.34  | 0.34             | 0.34             | 0.34             |           |
|  | 1      | LCM-320                | Loop Control Module   | 0.13  | 0.13             | 0.13             | 0.13             |           |
|  | 3      | LEM-320                | Loop Expander Module, Provides Even Numbered SLC Loops  | 0.1   | 0.3              | 0.1              | 0.3              |           |
|  | 1      | NCM-W                  | Network Communication Module, Wire  | 0.11  | 0.11             | 0.11             | 0.11             |           |
| CIRCUIT  | SYMBOL | QTY                    | PART NO.  | DESCRIPTION   | CURRENT DRAW (A) | TOTAL (A)        | CURRENT DRAW (A) | TOTAL (A) |
| N1-L1  | NAC    | 4                      | ACPS-610  | ACPS-610 in Stand-Alone Cabinet   | 0                | 0                | 0                | 0         |
|  | ⊕      | 2                      | DNR w/FSP-951R  | Intelligent Non-Relay Photoelectric Duct Detector w/FSP-951R                                | 0.0002           | 0.0004           | 0.0045           | 0.009     |
|  | ⊕      | 23                     | FSP-951 w/B300-6  | Addressable low-profile photoelectric smoke detector, FlashScan only.                       | 0.0002           | 0.0046           | 0.0045           | 0.1035    |
| N1-L2  | ⊕      | 26                     | FMM-4-20  | Analog Input Module   | 0.0007           | 0.0182           | 0.0007           | 0.0182    |
| N1-L3  | ⊕      | 8                      | FMM-4-20  | Analog Input Module   | 0.0007           | 0.0056           | 0.0007           | 0.0056    |
| N1-L4  | ⊕      | 2                      | FCM-1   | Addressable Control Module W/ FlashScan, 1 Class A or 1 Class B                             | 0.000485         | 0.00097          | 0.0065           | 0.013     |
|  | ⊕      | 6                      | FCM-1-REL   | Relaying Control Module   | 0.000485         | 0.00291          | 0.0065           | 0.039     |
|  | ⊕      | 15                     | FMM-1   | Addressable Monitor Module W/ FlashScan, Supervises Class A or Class B of Dry Contact Input | 0.000375         | 0.005625         | 0.005            | 0.075     |
|  | ⊕      | 12                     | FMM-101   | Addressable Min Monitor Module  | 0.000375         | 0.0045           | 0.005            | 0.06      |
|  | ⊕      | 1                      | FRM-1   | Addressable Relay Module W/ FlashScan, 2 Form-C Dry Contacts                                | 0.000255         | 0.000255         | 0.0065           | 0.0065    |
|  | ⊕      | 15                     | FSP-951 w/B300-6  | Addressable low-profile photoelectric smoke detector, FlashScan only.                       | 0.0002           | 0.003            | 0.0045           | 0.0675    |
|  |        |                        |   | TOTAL STANDBY (A)   | 1.27106          | TOTAL ALARM (A)  | 1.4923           |           |
|  |        |                        |   | REQUIRED STANDBY TIME = 24 HOURS  |                  |                  |                  |           |
|  |        |                        |   | REQUIRED ALARM TIME = 5 MINUTES   |                  |                  |                  |           |
| SECONDARY STANDBY LOAD (A)                       |        |                        |   | 1.27106   | 24               | 30.50544         |                  |           |
| SECONDARY ALARM LOAD (A)                         |        |                        |   | 1.4923  | 0.08333          | 0.12436          |                  |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)           |        |                        |   | 30.6298   |                  |                  |                  |           |
| DERATING FACTOR                                  |        |                        |   | 1.2   |                  |                  |                  |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)          |        |                        |   | 36.75576  |                  |                  |                  |           |
| PROVIDE (2) 12V 38AH BATTERIES @ 24VDC           |        |                        |   |   |                  |                  |                  |           |

| PANEL NAC1 (ACPS-610 ASSEMBLY) BATTERY CALCULATION |         |                        |   |  |                                   |                   |           |                  |           |
|--|---------|------------------------|---|--|-----------------------------------|-------------------|-----------|------------------|-----------|
| (SECONDARY POWER SOURCE REQUIREMENTS)              |         |                        |   |  |                                   |                   |           |                  |           |
| PANEL POWER SUPPLY MAX CURRENT = 6A                |         |                        |   | TOTAL USED CAPACITY (IN ALARM) = 1.88A (31.50 %) |                                   |                   |           |                  |           |
|  |         | STANDBY CURRENT (AMPS) |   | SECONDARY ALARM CURRENT (AMPS)                   |                                   |                   |           |                  |           |
|  | QTY     | PART NO.               | DESCRIPTION                                       | CURRENT DRAW (A)                                 | TOTAL (A)                         | CURRENT DRAW (A)  | TOTAL     |                  |           |
| PANEL COMPONENTS                                   | 1       | ACPS-610               | 6.0 A or 10.0 A Addressable Charging Power Supply | 0.09   | 0.09                              | 0.09              | 0.09      |                  |           |
|  | CIRCUIT | SYMBOL                 | QTY   | PART NO.   | DESCRIPTION                       | CURRENT DRAW (A)  | TOTAL (A) | CURRENT DRAW (A) | TOTAL (A) |
|  | NAC1-N1 | ⊕                      | 1   | P2RL   | 2-Wire, Horn Strobe, Red 115cfd   | 0                 | 0         | 0.162            | 0.162     |
|  |         |                        | 2   | P2RL   | 2-Wire, Horn Strobe, Red 115cfd   | 0                 | 0         | 0.198            | 0.396     |
|  | NAC1-N2 | ⊕                      | 3   | P2WL   | 2-Wire, Horn Strobe, White 115cfd | 0                 | 0         | 0.162            | 0.486     |
| 2  |         |                        | P2RL  | 2-Wire, Horn Strobe, Red 115cfd                  | 0                                 | 0                 | 0.198     | 0.396            |           |
| NAC1-N4  | ⊕       | 1                      | P2WL  | 2-Wire, Horn Strobe, White 115cfd                | 0                                 | 0                 | 0.162     | 0.162            |           |
|  |         | 1                      | P2WL  | 2-Wire, Horn Strobe, White 115cfd                | 0                                 | 0                 | 0.198     | 0.198            |           |
|  |         |                        |   | TOTAL STANDBY (A)                                | 0.09                              | TOTAL ALARM (A)   | 1.88      |                  |           |
|  |         |                        |   | REQUIRED STANDBY TIME = 24 HOURS                 |                                   |                   |           |                  |           |
|  |         |                        |   | REQUIRED ALARM TIME = 5 MINUTES                  |                                   |                   |           |                  |           |
| SECONDARY STANDBY LOAD (A)                         |         |                        |   | 0.09   | 24                                | 2.16              |           |                  |           |
| SECONDARY ALARM LOAD (A)                           |         |                        |   | 1.89   | 0.08333                           | 0.1575            |           |                  |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)             |         |                        |   | 2.3175   |                                   |                   |           |                  |           |
| DERATING FACTOR                                    |         |                        |   | 1.2  |                                   |                   |           |                  |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)            |         |                        |   | 2.781  |                                   |                   |           |                  |           |
| PANEL NAC2 (ACPS-610 ASSEMBLY) BATTERY CALCULATION |         |                        |   |  |                                   |                   |           |                  |           |
| (SECONDARY POWER SOURCE REQUIREMENTS)              |         |                        |   |  |                                   |                   |           |                  |           |
| PANEL POWER SUPPLY MAX CURRENT = 6A                |         |                        |   | TOTAL USED CAPACITY (IN ALARM) = 0.81A (13.50 %) |                                   |                   |           |                  |           |
|  |         | STANDBY CURRENT (AMPS) |   | SECONDARY ALARM CURRENT (AMPS)                   |                                   |                   |           |                  |           |
|  | QTY     | PART NO.               | DESCRIPTION                                       | CURRENT DRAW (A)                                 | TOTAL (A)                         | CURRENT DRAW (A)  | TOTAL     |                  |           |
| PANEL COMPONENTS                                   | 1       | ACPS-610               | 6.0 A or 10.0 A Addressable Charging Power Supply | 0.09   | 0.09                              | 0.09              | 0.09      |                  |           |
|  | CIRCUIT | SYMBOL                 | QTY   | PART NO.   | DESCRIPTION                       | CURRENT DRAW (A)  | TOTAL (A) | CURRENT DRAW (A) | TOTAL (A) |
|  | NAC2-N1 | ⊕                      | 2   | P2RL   | 2-Wire, Horn Strobe, Red 115cfd   | 0                 | 0         | 0.198            | 0.396     |
|  |         |                        | 2   | P2WL   | 2-Wire, Horn Strobe, White 115cfd | 0                 | 0         | 0.162            | 0.324     |
|  | NAC2-N3 | ⊕                      | 3   | 30-2021-24                                       | Flame Detector, UV, 24 VDC        | 0                 | 0         | 0                | 0         |
| 1  |         |                        | 30-2021-24  | Flame Detector, UV, 24 VDC                       | 0                                 | 0                 | 0         | 0                |           |
| NAC2-N4  | ⊕       | 2                      | 30-2054-24  | Ember Detector, IR, 24 VDC                       | 0                                 | 0                 | 0         | 0                |           |
|  |         |                        |   |  |                                   | TOTAL STANDBY (A) | 0.09      | TOTAL ALARM (A)  | 0.81      |
|  |         |                        |   | REQUIRED STANDBY TIME = 24 HOURS                 |                                   |                   |           |                  |           |
|  |         |                        |   | REQUIRED ALARM TIME = 5 MINUTES                  |                                   |                   |           |                  |           |
| SECONDARY STANDBY LOAD (A)                         |         |                        |   | 0.09   | 24                                | 2.16              |           |                  |           |
| SECONDARY ALARM LOAD (A)                           |         |                        |   | 0.81   | 0.08333                           | 0.0675            |           |                  |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)             |         |                        |   | 2.2275   |                                   |                   |           |                  |           |
| DERATING FACTOR                                    |         |                        |   | 1.2  |                                   |                   |           |                  |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)            |         |                        |   | 2.673  |                                   |                   |           |                  |           |
| PROVIDE (2) 12V 7AH BATTERIES @ 24VDC              |         |                        |   |  |                                   |                   |           |                  |           |

| PANEL NAC3 (ACPS-610 ASSEMBLY) BATTERY CALCULATION |         |                        |   |   |   |                   |           |                  |           |
|--|---------|------------------------|---|---|---|-------------------|-----------|------------------|-----------|
| (SECONDARY POWER SOURCE REQUIREMENTS)              |         |                        |   |   |   |                   |           |                  |           |
| PANEL POWER SUPPLY MAX CURRENT = 6A                |         |                        |   | TOTAL USED CAPACITY (IN ALARM) = 1.762A (29.37 %)               |   |                   |           |                  |           |
|  |         | STANDBY CURRENT (AMPS) |   | SECONDARY ALARM CURRENT (AMPS)                                  |   |                   |           |                  |           |
|  | QTY     | PART NO.               | DESCRIPTION                                       | CURRENT DRAW (A)  | TOTAL (A)   | CURRENT DRAW (A)  | TOTAL     |                  |           |
| PANEL COMPONENTS                                   | 1       | ACPS-610               | 6.0 A or 10.0 A Addressable Charging Power Supply | 0.09  | 0.09  | 0.09              | 0.09      |                  |           |
|  | CIRCUIT | SYMBOL                 | QTY   | PART NO.  | DESCRIPTION <td>CURRENT DRAW (A)</td> <td>TOTAL (A)</td> <td>CURRENT DRAW (A)</td> <td>TOTAL (A)</td> | CURRENT DRAW (A)  | TOTAL (A) | CURRENT DRAW (A) | TOTAL (A) |
|  | NAC3-N1 | ⊕                      | 3   | 30-2021-24  | Flame Detector, UV, 24 VDC  | 0                 | 0         | 0                | 0         |
|  |         |                        | 3   | XCD   | Gas Detector  | 0.209             | 0.627     | 0.209            | 0.627     |
|  | NAC3-N2 | ⊕                      | 4   | 30-2021-24  | Flame Detector, UV, 24 VDC  | 0                 | 0         | 0                | 0         |
| 2  |         |                        | XCD   | Gas Detector  | 0.209   | 0.418             | 0.209     | 0.418            |           |
| NAC3-N3  | ⊕       | 9                      | 30-2021-24  | Flame Detector, UV, 24 VDC                                      | 0   | 0                 | 0         | 0                |           |
|  |         | 4                      | 30-2021-24  | Flame Detector, UV, 24 VDC                                      | 0   | 0                 | 0         | 0                |           |
| NAC3-N4  | ⊕       | 3                      | XCD   | Gas Detector  | 0.209   | 0.627             | 0.209     | 0.627            |           |
|  |         |                        |   |   |   | TOTAL STANDBY (A) | 1.762     | TOTAL ALARM (A)  | 1.762     |
|  |         |                        |   | REQUIRED STANDBY TIME = 24 HOURS                                |   |                   |           |                  |           |
|  |         |                        |   | REQUIRED ALARM TIME = 5 MINUTES                                 |   |                   |           |                  |           |
| SECONDARY STANDBY LOAD (A)                         |         |                        |   | 1.762   | 24  | 42.288            |           |                  |           |
| SECONDARY ALARM LOAD (A)                           |         |                        |   | 1.762   | 0.08333   | 0.14683           |           |                  |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)             |         |                        |   | 42.43563  |   |                   |           |                  |           |
| DERATING FACTOR                                    |         |                        |   | 1.2   |   |                   |           |                  |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)            |         |                        |   | 50.9218   |   |                   |           |                  |           |
| PANEL NAC4 (ACPS-610 ASSEMBLY) BATTERY CALCULATION |         |                        |   |   |   |                   |           |                  |           |
| (SECONDARY POWER SOURCE REQUIREMENTS)              |         |                        |   |   |   |                   |           |                  |           |
| PANEL POWER SUPPLY MAX CURRENT = 6A                |         |                        |   | TOTAL USED CAPACITY (IN ALARM) = 1.4914A (24.86 %)              |   |                   |           |                  |           |
|  |         | STANDBY CURRENT (AMPS) |   | SECONDARY ALARM CURRENT (AMPS)                                  |   |                   |           |                  |           |
|  | QTY     | PART NO.               | DESCRIPTION                                       | CURRENT DRAW (A)  | TOTAL (A)   | CURRENT DRAW (A)  | TOTAL     |                  |           |
| PANEL COMPONENTS                                   | 1       | ACPS-610               | 6.0 A or 10.0 A Addressable Charging Power Supply | 0.09  | 0.09  | 0.09              | 0.09      |                  |           |
|  | CIRCUIT | SYMBOL                 | QTY   | PART NO.  | DESCRIPTION <td>CURRENT DRAW (A)</td> <td>TOTAL (A)</td> <td>CURRENT DRAW (A)</td> <td>TOTAL (A)</td> | CURRENT DRAW (A)  | TOTAL (A) | CURRENT DRAW (A) | TOTAL (A) |
|  | NAC4-N1 | ⊕                      | 2   | PC2RL   | 2-Wire, Horn Strobe, Red 115cfd   | 0                 | 0         | 0.187            | 0.374     |
|  |         |                        | 2   | PC2WL   | 2-Wire, Horn Strobe, White 115cfd   | 0                 | 0         | 0.187            | 0.374     |
|  | NAC4-N3 | ⊕                      | 1   | FCM-1   | Addressable Control Module W/ FlashScan, 1 Class A or 1 Class B                                       | 0                 | 0         | 0.1637           | 0.1637    |
| 1  |         |                        | P2RL  | 2-Wire, Horn Strobe, Red 75cfd                                  | 0   | 0                 | 0.074     | 0.074            |           |
| 2  |         |                        | P2RL  | 2-Wire, Horn Strobe, Red 75cfd                                  | 0   | 0                 | 0.121     | 0.242            |           |
| 4  |         |                        | SRL   | Strobe, Red 15cfd   | 0   | 0                 | 0.043     | 0.172            |           |
| NAC4-N4  | ⊕       | 1                      | FCM-1   | Addressable Control Module W/ FlashScan, 1 Class A or 1 Class B | 0   | 0                 | 0.0017    | 0.0017           |           |
|  |         |                        |   |   |   | TOTAL STANDBY (A) | 0.09      | TOTAL ALARM (A)  | 1.4914    |
|  |         |                        |   | REQUIRED STANDBY TIME = 24 HOURS                                |   |                   |           |                  |           |
|  |         |                        |   | REQUIRED ALARM TIME = 5 MINUTES                                 |   |                   |           |                  |           |
| SECONDARY STANDBY LOAD (A)                         |         |                        |   | 0.09  | 24  | 2.16              |           |                  |           |
| SECONDARY ALARM LOAD (A)                           |         |                        |   | 1.4914  | 0.08333   | 0.12428           |           |                  |           |
| STANDBY AND ALARM SUBTOTAL (AMP HOURS)             |         |                        |   | 2.28428   |   |                   |           |                  |           |
| DERATING FACTOR                                    |         |                        |   | 1.2   |   |                   |           |                  |           |
| SECONDARY LOAD REQUIREMENTS (AMP HOURS)            |         |                        |   | 2.74114   |   |                   |           |                  |           |
| PROVIDE (2) 12V 7AH BATTERIES @ 24VDC              |         |                        |   |   |   |                   |           |                  |           |







| DEVICE LEGEND |  |
|---------------|--|
| SYMBOL        | DESCRIPTION  |
|               | FACP, ADDRESSABLE, CPU2-3030D, 1X LCM-320, 1X LEM-320, AMPS-24, NCM-W                      |
|               | 6.0 A OR 10.0 A ADDRESSABLE CHARGING POWER SUPPLY  |
|               | ADDRESSABLE MONITOR MODULE W/ FLASHCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT |
|               | ADDRESSABLE MINI MONITOR MODULE  |
|               | ANALOG INPUT MODULE  |
|               | ADDRESSABLE CONTROL MODULE W/ FLASHCAN, 1 CLASS A OR 1 CLASS B                             |
|               | RELEASING CONTROL MODULE   |
|               | ADDRESSABLE RELAY MODULE W/ FLASHCAN, 2 FORM-C DRY CONTACTS                                |
|               | INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R                                 |
|               | FLAME DETECTOR, UV, 24 VDC   |
|               | ADDRESSABLE, LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.                     |
|               | GAS DETECTOR   |
|               | 2-WIRE, WALL, HORN STROBE  |
|               | 2-WIRE, CEILING, HORN STROBE, RED  |
|               | STROBE, RED  |

| CABLE AND WIRE LEGEND |                                  |
|-----------------------|----------------------------------|
| LABEL                 | DESCRIPTION                      |
|                       | LOOP 1 - FIRE ALARM DEVICES      |
|                       | LOOP 2 - FLAME DETECTORS         |
|                       | LOOP 3 - GAS DETECTORS           |
|                       | LOOP 4 - FIRE SUPPRESSION SYSTEM |
|                       | NAC                              |
|                       | AUXILIARY                        |
|                       | IDC                              |

**INSTALLATION AND MAINTENANCE INSTRUCTIONS**

**Innova! flex**

**DNR Duct Smoke Detector**

**SPECIFICATIONS**

Storage Temperature: 44° to 140° F (7° to 60° C); 32° to 120° F (0° to 49° C) when installed in the DNR  
 Normal Operating Voltage: 100 to 400V R.M.S. (0.3 to 20.0 Amps)  
 Humidity: 10% to 95% Relative Humidity, Non-condensing  
 Air Velocity: 100 to 4000 F.M. (3 to 20.3 m.p.h.)  
 Size: 11.0" x 5.8" x 2.5" (D) x 7.25" x 1.27" (W x H) (3.0 cm x 4.3 cm x 2.5 cm)  
 Square Footprint Dimensions: 7.75" L x 9" W x 2.5" D (19.7 cm L x 22.9 cm W x 6.3 cm D)  
 Weight: 1.9 pounds (0.75 kg)

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**INSTALLATION AND MAINTENANCE INSTRUCTIONS**

**NOTIFIER**  
by Honeywell

**FCM-1 REL Releasing Control Module**

**SPECIFICATIONS**

Normal Operating Voltage: 15 to 32 VDC Nominal  
 Average Operating Current: 70mA (LED on)  
 Maximum Activation Current: 9.0 mA (not LED on)

**General Description**

The FCM-1 REL is a releasing control module used to release fire alarm devices (solenoids) from their normal, latched condition.

**RELEASING INSTRUCTIONS**

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**COMPATIBILITY REQUIREMENTS**

To ensure proper operation, this module should be connected to a compatible Notifier system control panel only (list available from Notifier).

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