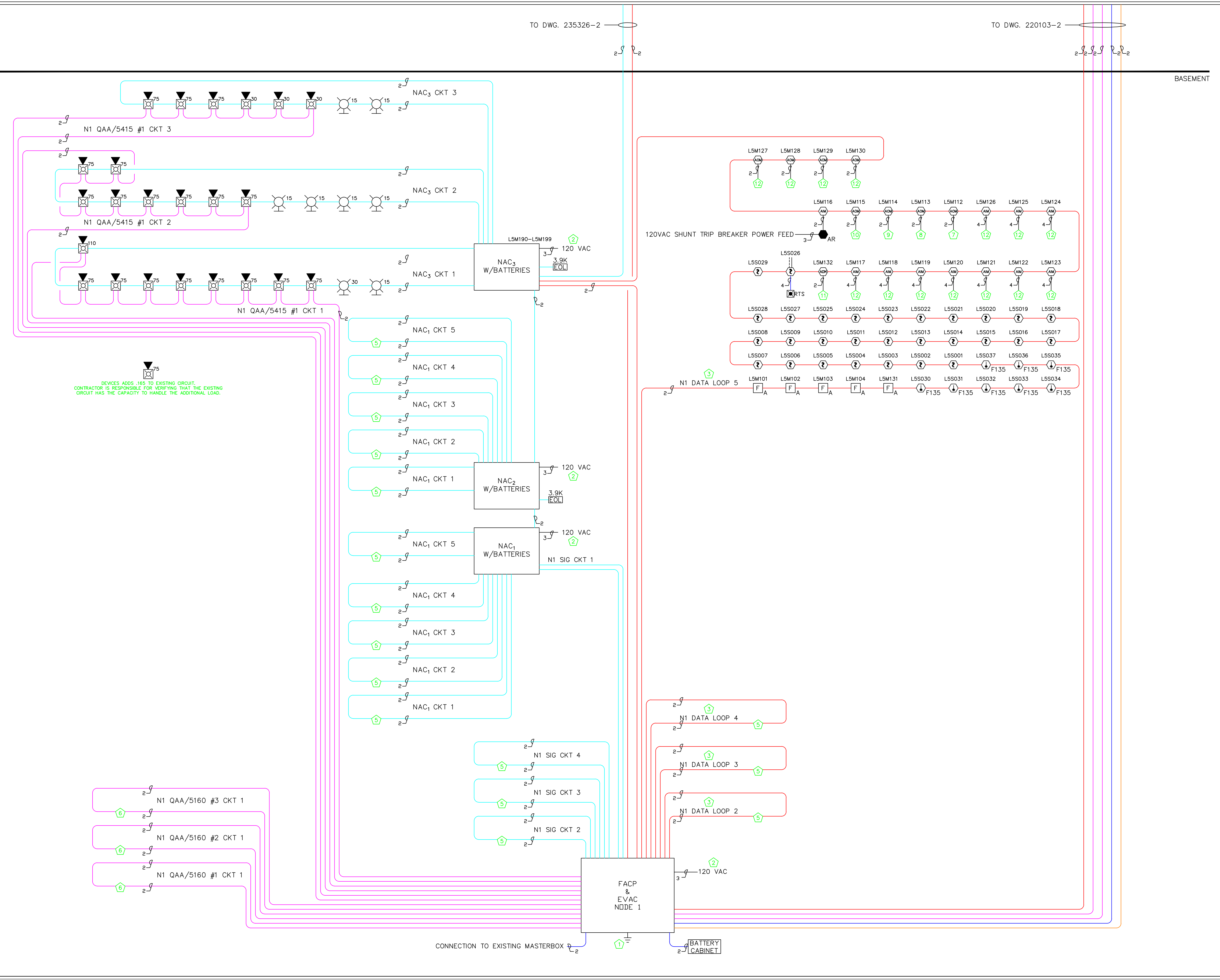


TO DWG. 235326-2

TO DWG. 220103-2

BASEMENT



DEVICES ADDED TO EXISTING CIRCUIT CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE EXISTING CIRCUIT HAS THE CAPACITY TO HANDLE THE ADDITIONAL LOAD.

NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code. Failure to make a proper Earth Ground connection to a metal cold water pipe or driven Ground Rod to this terminal will result in loss of Lightning protection, reduce the tolerance of the system to transients and will adversely affect its operation. Panel Neutral or Conduit Ground is not acceptable. Minimum Wire Size: 12 AWG

Signal Circuit Power Boosters are supplied for additional NAC power as well as to allow the installer to use smaller gauge wire over shorter signal runs. The Signal Circuit Power Booster should be installed in the field in close proximity to the Notification Appliances they are powering.

WARNING

THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DEVICES, THE WIRE TYPE AND THAT ALL WIRE SIZES MEET STATE AND LOCAL CODE REQUIREMENTS. THE INSTALLING CONTRACTOR IS ALSO RESPONSIBLE THAT THE INSTALLATION IS FREE OF ALL DEFECTS.

WIRING SPECIFICATIONS

- DATA/SLC- 16 AWG MIN 12AWG MAX. TWISTED CABLE, SHIELDED CABLE NOT ACCEPTED.
 - ZONE/IDC- 16 AWG MIN 12AWG MAX.
 - SIGNAL/NAC- 16AWG MIN 12AWG MAX
 - POWER- 16AWG MIN 12AWG MAX
 - SPEAKER- 16AWG MIN. 12AWG MAX. TWISTED SHIELDED CABLE, SHIELDS MUST BE CONNECTED AT EACH TERMINATION POINT AND TAPED TO ISOLATE FROM GROUND. GROUND CONNECTION TO BE MADE AT VOICE PANEL ONLY.
 - ANNUNCIATOR DATA- 16AWG MIN. 12AWG MAX. TWISTED SHIELDED CABLE.
- POWER LIMITED AND NON POWER LIMITED CABLE CAN NOT BE RUN THROUGH THE SAME RACEWAY.

NOTES

- 1 Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
- 2 No AC voltage on any terminal other than those specified.
- 3 Maximum line resistance is 40 Ohms, maximum line capacitance is 0.5 micro-farad per loop.
- 4 Existing Notification Devices Device Type & Quantity Unknown.
- 5 Existing Initiating Devices Device Type & Quantity Unknown.
- 6 Existing Voice Devices Device Type & Quantity Unknown.
- 7 To Elevator Controller, Recall Elevator To Primary Floor. Component must be installed within 3' of the controlled device.
- 8 To Elevator Controller, Recall Elevator To Alternate Floor. Component must be installed within 3' of the controlled device.
- 9 To Elevator Controller, Firemans Hat Warning Light. Component must be installed within 3' of the controlled device.
- 10 To Elevator Shunt Trip Breaker. Component must be installed within 3' of the controlled device.
- 11 HVAC Shutdown Component must be installed within 3' of the controlled device.
- 12 To be Determined By Installing Contractor In Field Component must be installed within 3' of the controlled device.
- 13 Revised on 9/14/16

GENERAL NOTES

1. ALL Fire Alarm System wiring shall comply with the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.
2. CAUTION DO NOT connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.
3. DO NOT install FACP or smoke detectors in any unheated area.
4. DO NOT install any AC current carrying conductors close to or in the same raceway with Fire alarm system conductors.
5. Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.
6. See Installation Manual for additional wiring instructions.
7. All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A DNLY.
8. FACP Indicating circuit outputs are 17 amps at 24 VDC per circuit. INX/10A circuit outputs are 2.5 amps, each. Not to exceed 10 amps total.
9. Cabinet Dimensions:
NDEE 3 (BBX-FXMS) - L 61.500" W 20.000" D 9.000"
INX-10A - L 20.000" W 14.500" D 4.500"

SPECIAL FUNCTIONS

All Wiring To Be Class A. Existing Strobes Are Not Synchronized & Will Not Be Synchronized With New Devices.

QTY	LEGEND
5	[FA] Addressable Manual Pull Station
8	[AD] Analog Thermal Detector F135 Fixed Temp 135°
28	[P] Analog Photoelectric Smoke Detector
1	[P] Analog Photoelectric Duct Smoke Detector
1	[KRTS] Keyed Remote Test Station
1	[AR] Auxiliary Relay
9	[ARM] Addressable Relay Module
11	[AMM] Addressable Monitor Module
8	[S] Strobe
24	[SS] Speaker Strobe Added 1 on 9/14/16
15	15 Candela
30	30 Candela
75	75 Candela
110	110 Candela
	[G] Ground

SIGNAL CIRCUITS

CKT #	TOTAL LOAD	CAPACITY %
N1 SIG CKT 1	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N1 SIG CKT 2	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N1 SIG CKT 3	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N1 SIG CKT 4	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
NAC1 CKT 1	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC1 CKT 2	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC1 CKT 3	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC1 CKT 4	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC1 CKT 5	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC2 CKT 1	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC2 CKT 2	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC2 CKT 3	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC2 CKT 4	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC2 CKT 5	EXISTING NOT TO EXCEED 2.5A	UNKNOWN
NAC3 CKT 1	1.7300	69%
NAC3 CKT 2	1.6000	64%
NAC3 CKT 3	0.9000	36%
NAC3 CKT 4	SPARE	0%
NAC3 CKT 5	SPARE	0%

WIRE SIZE TO BE DETERMINED BY INSTALLING CONTRACTOR IN FIELD. ALL SYSTEM WIRING SHALL BE 16AWG MIN. AND 12AWG MAX.

Audio Note:
Existing System is 70 VAC. New Speaker devices are to be 25 VAC. As a rule of thumb, speaker taps should be set according to strobe candella ratings. 15cd = 1/4 watt, 30cd = 1/2 watt, 75cd = 1 watt, & 110cd = 2 watts. Individual speakers that do not have a strobe are generally set to 1/4 watt. Ambient conditions in building may require further adjustments to meet the required decibel level.

Prepared By: **Mammoth Fire Alarms Incorporated**
1-800-995-9808
Lowell, MA 01854-3126

Property Protection Monitoring Incorporated
1-877-796-2344
24HR 11. Local Signal Monitoring

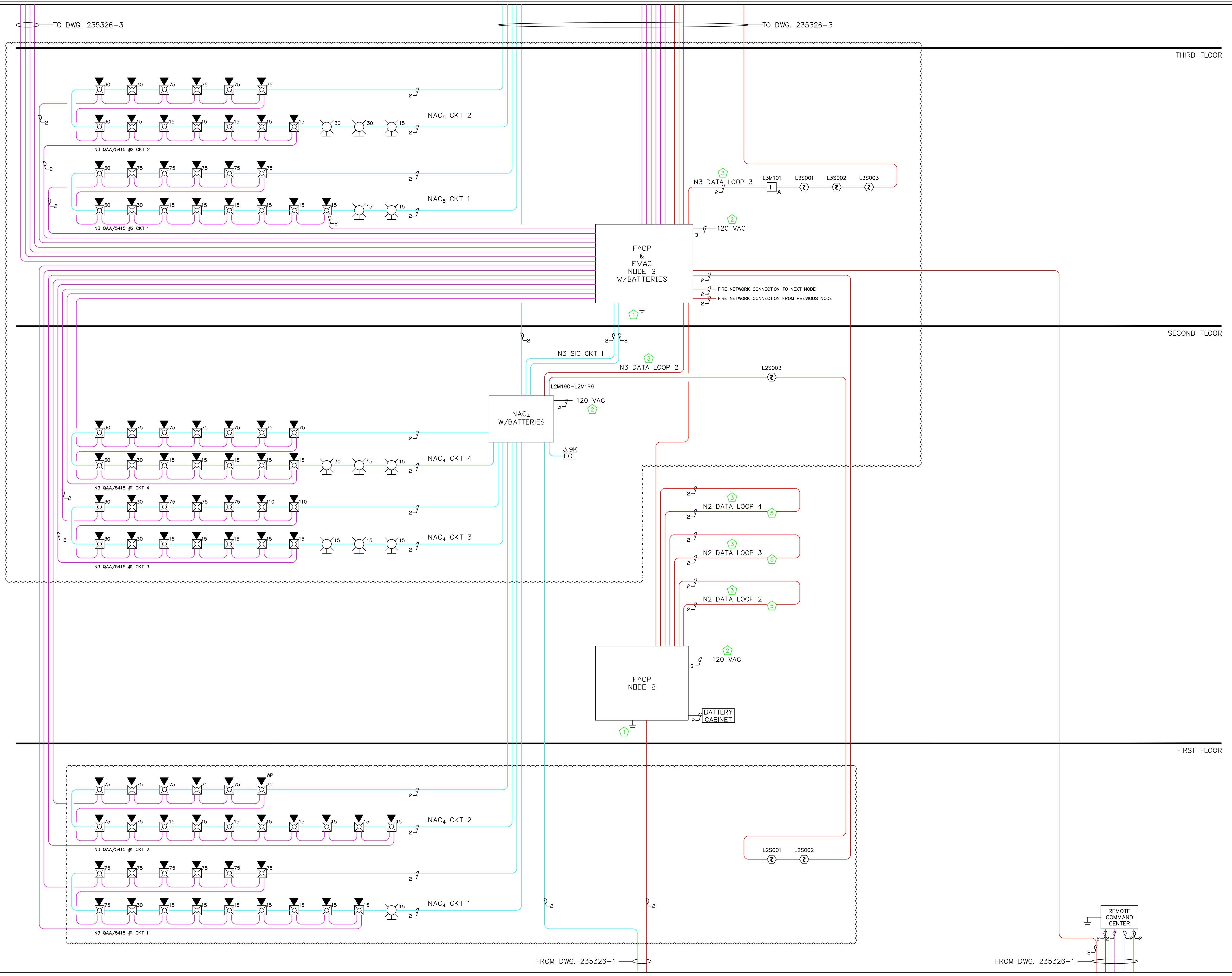
Mammoth Fire Protection Systems Incorporated
1-877-637-5969
Fire Sprinkler & Clean Agent Suppression Systems

Scale: None
Date: 3/20/15

Approved By: Dave 9/20/16
Revised: MAD 9/14/16

Project Info:
Maine College of Art
522 Congress Street Portland, Me.
Prepared For: Mammoth Electric
179 Sheridan Street Portland, Me. 04101

Drawing No:
235326
1 OF 7



NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code. Failure to make a proper Earth Ground connection to a metal cold water pipe or driven Ground Rod to this terminal will result in loss of Lightning protection, reduce the tolerance of the system to transients and will adversely affect its operation. Panel Neutral or Conduit Ground is not acceptable. Minimum Wire Size: 12 AWG

Signal Circuit Power Boosters are supplied for additional NAC power as well as to allow the installer to use smaller gauge wire over shorter signal runs. The Signal Circuit Power Booster should be installed in the field in close proximity to the Notification Appliances they are powering.

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WIRING SPECIFICATIONS

- DATA/SLC- 16 AWG MIN 12AWG MAX. TWISTED CABLE, SHIELDED CABLE NOT ACCEPTED.
- SIGNAL/NAC- 16AWG MIN 12AWG MAX
- POWER- 16AWG MIN 12AWG MAX
- SPEAKER- 16AWG MIN. 12AWG MAX. TWISTED SHIELDED CABLE, SHIELDS MUST BE CONNECTED AT EACH TERMINATION POINT AND TAPED TO ISOLATE FROM GROUND. GROUND CONNECTION TO BE MADE AT VOICE PANEL ONLY.
- ANNUNCIATOR DATA- 16AWG MIN. 12AWG MAX. TWISTED SHIELDED CABLE.

POWER LIMITED AND NON POWER LIMITED CABLE CAN NOT BE RUN THROUGH THE SAME RACEWAY.

- GENERAL NOTES**
- ALL Fire Alarm System wiring shall comply with the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.
 - CAUTION: DO NOT connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.
 - DO NOT install FACP, or smoke detectors in any unheated area.
 - DO NOT install any AC current carrying conductors close to or in the same raceway with Fire alarm system conductors.
 - Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.
 - See Installation Manual for additional wiring instructions.
 - All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A DONLY.
 - FACP Indicating circuit outputs are 17 amps at 24 VDC per circuit. INX/10A circuit outputs are 2.5 amps. each. Not to exceed 10 amps total.
 - Cabinet Dimensions:
NDE 3 (BBX-FXMS) - L 61.500" W 20.000" D 9.000"
INX-10A - L 20.000" W 14.500" D 4.500"

SPECIAL FUNCTIONS

All Wiring To Be Class A.
Existing Strobes Are Not Synchronized & Will Not Be Synchronized With New Devices.

QTY	LEGEND
1	Addressable Manual Pull Station Added 1 on 9/14/16
6	Analog Photoelectric Smoke Detector Added 6 on 9/14/16
12	Strobe Added 12 on 9/14/16
86	Speaker Strobe Added 86 on 9/14/16
15	15 Candela
30	30 Candela
75	75 Candela
110	110 Candela
	Ground

- NOTES**
- Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
 - No AC voltage on any terminal other than those specified.
 - Maximum line resistance is 40 Ohms. maximum line capacitance is 65 Micro-farad per loop.
 - Existing Notification Devices. Device type & Quantity Unknown.
 - Existing Initiating Devices. Device type & Quantity Unknown.
 - Existing Voice Devices. Device type & Quantity Unknown.
 - To Elevator Controller, Recall Elevator To Primary Floor. Component must be installed within 3' of the controlled device.
 - To Elevator Controller, Recall Elevator To Alternate Floor. Component must be installed within 3' of the controlled device.
 - To Elevator Controller, Firemans Hat Warning Light. Component must be installed within 3' of the controlled device.
 - To Elevator Shunt Trip Breaker. Component must be installed within 3' of the controlled device.
 - HVAC Shutdown. Component must be installed within 3' of the controlled device.
 - To Be Determined By Installing Contractor In Field. Component must be installed within 3' of the controlled device.
 - Revised on 9/14/16

SIGNAL CIRCUITS

CKT #	TOTAL LOAD	CAPACITY %
N2 SIG CKT 1	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N2 SIG CKT 2	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N2 SIG CKT 3	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N2 SIG CKT 4	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N3 SIG CKT 1	INX TRIP	DEDICATED
N3 SIG CKT 2	SPARE	0%
N3 SIG CKT 3	SPARE	0%
N3 SIG CKT 4	SPARE	0%
NAC ₄ CKT 1	1.7600	70%
NAC ₄ CKT 2	1.8100	72%
NAC ₄ CKT 3	1.7900	72%
NAC ₄ CKT 4	1.8000	72%
NAC ₄ CKT 5	SPARE	0%
NAC ₅ CKT 1	1.6000	64%
NAC ₅ CKT 2	1.5500	62%
NAC ₅ CKT 5	SPARE	0%

SPEAKER CIRCUITS

CKT #	TOTAL LOAD	CAPACITY %
OAA/S412 #1 CKT 1	9.25W	62%
OAA/S412 #1 CKT 2	10W	67%
OAA/S412 #1 CKT 3	10.25W	68%
OAA/S412 #1 CKT 4	8.75W	58%
OAA/S412 #2 CKT 1	8W	53%
OAA/S412 #2 CKT 2	7W	46%

Audio Note:
Existing System is 70 VAC.
New Speaker devices are to be 25 VAC.
As a rule of thumb, speaker taps should be set according to strobe candella ratings.
15cd = 1/4 watt, 30cd = 1/2 watt, 75cd = 1 watt, & 110cd = 2 watts.
Individual speakers that do not have a strobe are generally set to 1/4 watt.
Ambient conditions in building may require further adjustments to meet the required decibel level.

SIGNAL CIRCUITS

CKT #	TOTAL LOAD	CAPACITY %
N2 SIG CKT 1	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N2 SIG CKT 2	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N2 SIG CKT 3	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N2 SIG CKT 4	EXISTING NOT TO EXCEED 1.7A	UNKNOWN
N3 SIG CKT 1	INX TRIP	DEDICATED
N3 SIG CKT 2	SPARE	0%
N3 SIG CKT 3	SPARE	0%
N3 SIG CKT 4	SPARE	0%
NAC ₄ CKT 1	1.7600	70%
NAC ₄ CKT 2	1.8100	72%
NAC ₄ CKT 3	1.7900	72%
NAC ₄ CKT 4	1.8000	72%
NAC ₄ CKT 5	SPARE	0%
NAC ₅ CKT 1	1.6000	64%
NAC ₅ CKT 2	1.5500	62%
NAC ₅ CKT 5	SPARE	0%

WIRE SIZE TO BE DETERMINED BY INSTALLING CONTRACTOR IN FIELD. ALL SYSTEM WIRING SHALL BE 16AWG MIN. AND 12AWG MAX.

Prepared By:
Mammoth Fire Alarms Incorporated
1-800-995-9808
Lowell, MA 01854-3126

Property Protection Monitoring Incorporated
1-877-796-2344
Lowell, MA 01854-0256

Mammoth Fire Protection Systems Incorporated
1-877-637-5969
Lowell, MA 01854-0256

Scale: None
Date: 3/20/15
Approved By: Dave 9/20/16
Drawn By: MAD
Revised: MAD 9/14/16

Project Info:
Maine College of Art
522 Congress Street Portland, Me.
Prepared For: Mammoth Electric
179 Sheridan Street Portland, Me. 04101
Drawing No: 235326
2 OF 7

NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code. Failure to make a proper Earth Ground connection to a metal cold water pipe or a driven Ground Rod to this terminal will result in loss of Lightning protection, reduce the tolerance of the system to transients and will adversely affect its operation. Panel Neutral or Conduit Ground is not acceptable.
Minimum Wire Size: 12 AWG

Signal Circuit Power Boosters are supplied for additional NAC power as well as to allow the installer to use smaller gauge wire over shorter signal runs.
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WARNING

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 - POWER- 16AWG MIN 12AWG MAX
 - SPEAKER- 16AWG MIN. 12AWG MAX. TWISTED SHIELDED CABLE, SHIELDS MUST BE CONNECTED AT EACH TERMINATION POINT AND TAPED TO ISOLATE FROM GROUND. GROUND CONNECTION TO BE MADE AT VOICE PANEL ONLY.
- POWER LIMITED AND NON POWER LIMITED CABLE CAN NOT BE RUN THROUGH THE SAME RACEWAY.

NOTES

- 1 Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
- 2 No AC voltage on any terminal other than those specified.
- 3 Maximum line resistance is 40 Ohms, maximum line capacitance is 0.5 micro-farad per loop.
- 4 Existing Notification Devices. Device type & Quantity Unknown.
- 5 Existing Initiating Devices. Device type & Quantity Unknown.
- 6 Existing Voice Devices. Device type & Quantity Unknown.
- 7 To Elevator Controller, Recall Elevator To Primary Floor. Component must be installed within 3' of the controlled device.
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- 11 HVAC Shutdown. Component must be installed within 3' of the controlled device.
- 12 To Be Determined By Installing Contractor In Field. Component must be installed within 3' of the controlled device.
- 13 Revised on 9/14/16

GENERAL NOTES

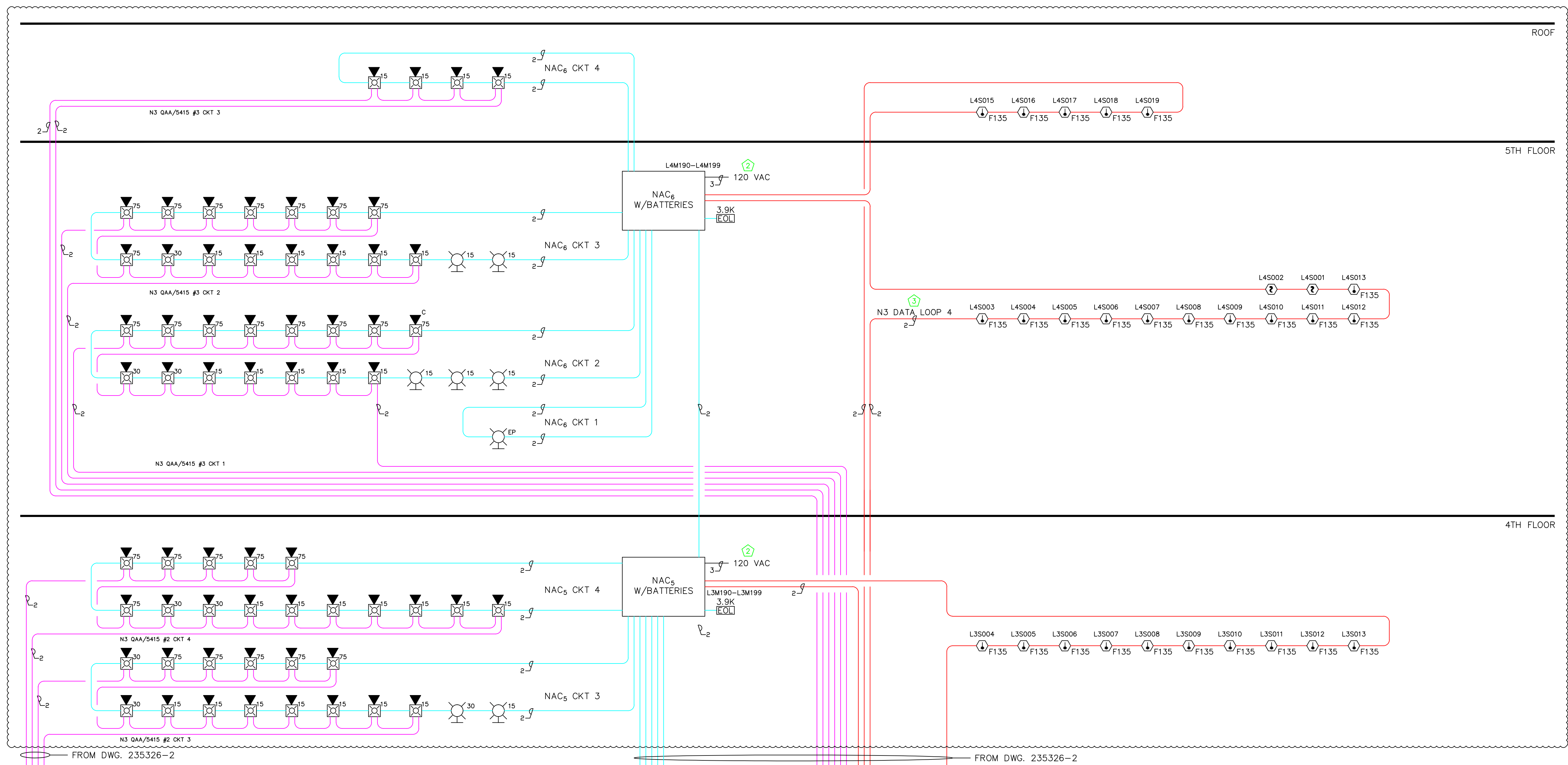
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2. CAUTION DO NOT connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.
3. DO NOT install FACP or smoke detectors in any unheated area.
4. DO NOT install any AC current carrying conductors close to or in the same raceway with Fire alarm system conductors.
5. Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.
6. See Installation Manual for additional wiring instructions.
7. All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A ONLY.
8. FACP Indicating circuit outputs are 17 amps at 24 VDC per circuit. INX/10A circuit outputs are 2.5 amps each. Not to exceed 10 amps total.
9. Cabinet Dimensions:
NDEE 3 (BBX-FXMS) - L 61.5000" W 20.0000" D 9.0000"
INX-10A - L 20.0000" W 14.5000" D 4.5000"

SPECIAL FUNCTIONS

All Wiring To Be Class A.
Existing Strobes Are Not Synchronized & Will Not Be Synchronized With New Devices.

LEGEND

- | | |
|--|--|
| <p>26 F135 Fixed Temp 135°
Added 26 on 9/14/16</p> <p>2 Analog Photoelectric Smoke Detector
Added 2 on 9/14/16</p> <p>8 Strobe
Added 8 on 9/14/16</p> <p>63 Speaker Strobe
Added 63 on 9/14/16</p> | <p>15 15 Candela</p> <p>30 30 Candela</p> <p>75 75 Candela</p> <p>110 110 Candela</p> <p>C Ceiling Mount</p> <p>EP Explosion Proof</p> <p>⊥ Ground</p> |
|--|--|



SIGNAL CIRCUITS

CKT #	TOTAL LOAD	CAPACITY %
NAC ₆ CKT 3	1.6000	64%
NAC ₆ CKT 4	1.6200	65%
NAC ₆ CKT 1	0.9900	40%
NAC ₆ CKT 2	1.9700	79%
NAC ₆ CKT 3	1.9300	77%
NAC ₆ CKT 4	0.2400	10%
NAC ₆ CKT 5	SPARE	0%

SPEAKER CIRCUITS

CKT #	TOTAL LOAD	CAPACITY %
QAA/S412 #2 CKT 3	7.75W	52%
QAA/S412 #2 CKT 4	8.75W	58%
QAA/S412 #3 CKT 1	10W	67%
QAA/S412 #3 CKT 2	10.5W	69%
QAA/S412 #3 CKT 3	1W	64%

WIRE SIZE TO BE DETERMINED BY INSTALLING CONTRACTOR IN FIELD. ALL SYSTEM WIRING SHALL BE 16AWG MIN. AND 12AWG MAX.

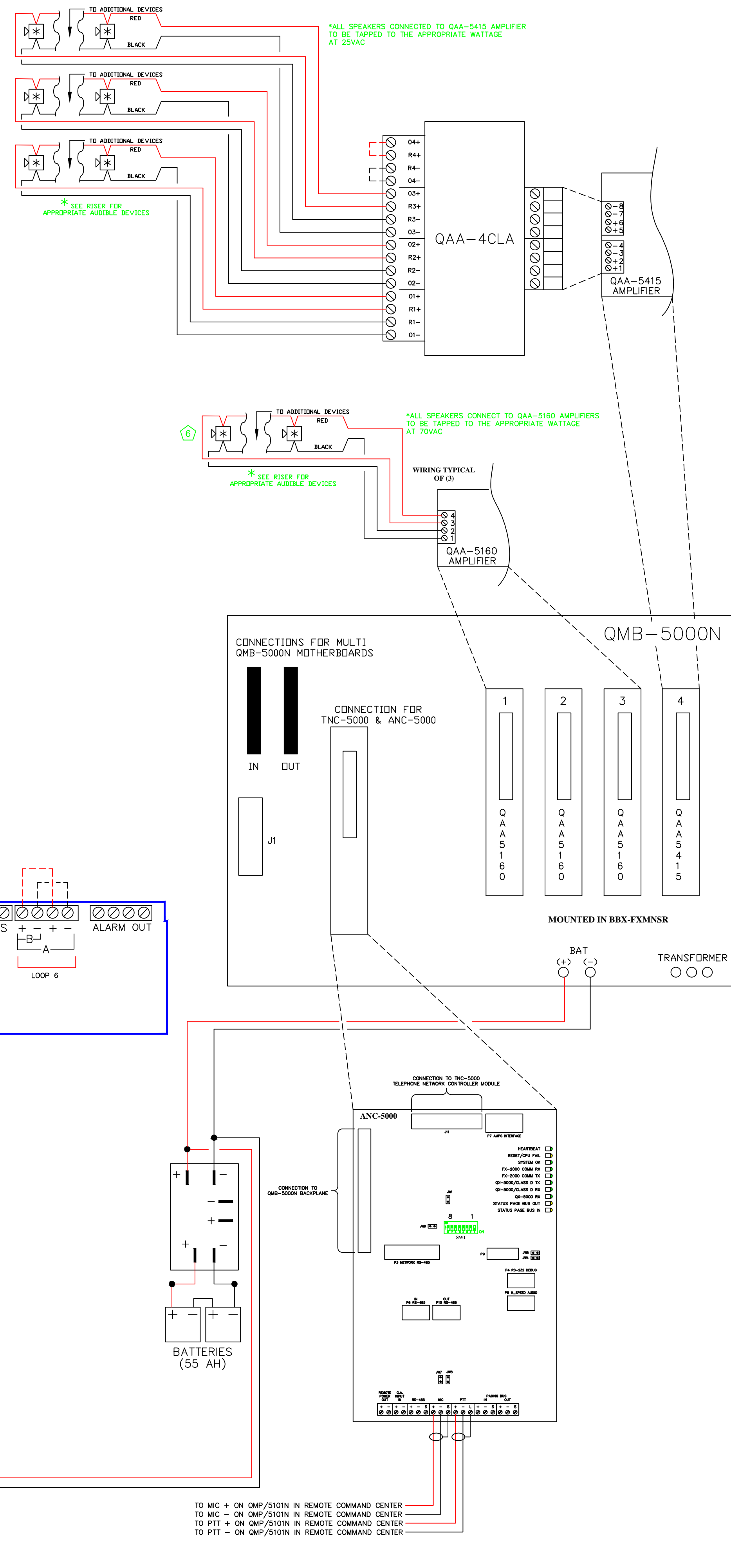
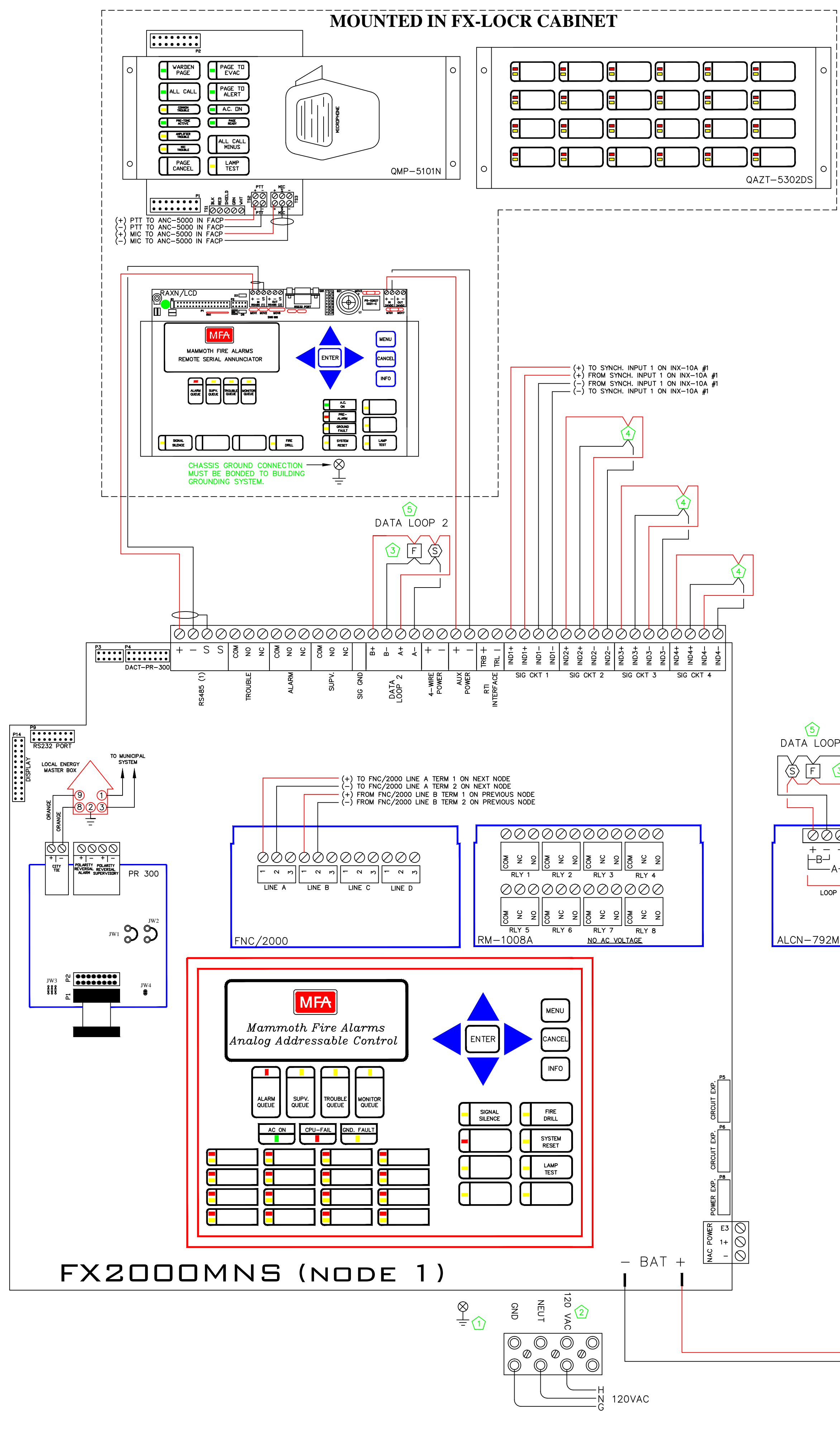
Audio Note:
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Ambient conditions in building may require further adjustments to meet the required decibel level.

Prepared By:
Mammoth Fire Alarms
Incorporated
1-800-995-9808
Lowell, MA 01854-3126

Property Protection Monitoring Incorporated 1-877-796-2344 Email: Bill@PPM-USA.com	Mammoth Fire Protection Systems Incorporated 1-877-637-5969 Email: Bill@MFA-USA.com

Scale: None Approved By: **DAVE** Drawn By: **MAD**
Date: 3/20/15 Dave 9/20/16 Revised: MAD 9/14/16

Project Info:
Maine College of Art
522 Congress Street Portland, Me.
Prepared For: **Mammoth Electric** Drawing No. **235326**
179 Sheridan Street Portland, Me. 04101 3 OF 7



NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.

2. **CAUTION: DO NOT** connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.

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6. See Installation Manual for additional wiring instructions.

7. All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A DONLY.

8. FACP Indicating circuit outputs are 17 amps at 24 VDC per circuit; INX/10A circuit outputs are 2.5 amps each. Not to exceed 10 amps total.

9. Cabinet Dimensions:
 NDEE 3 (BBX-FXMNS) - L 61.5000" W 20.0000" D 9.0000"
 INX-10A - L 20.0000" W 14.5000" D 4.5000"

WARNING

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NOTES

- Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
- No AC voltage on any terminal other than those specified.
- Maximum line resistance is 40 Ohms, maximum line capacitance is 0.5 micro-Farad per loop.
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SPECIAL FUNCTIONS

All Wiring To Be Class A.
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AUDIO NOTE

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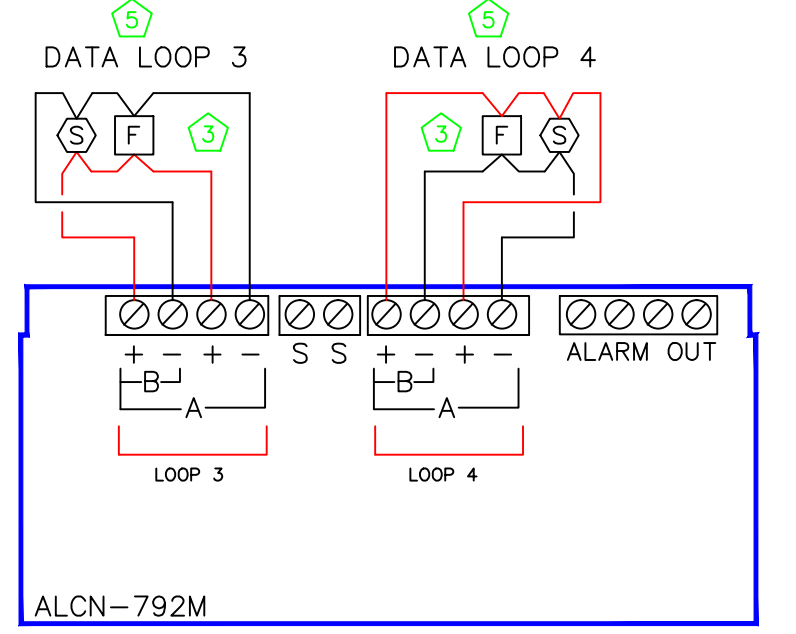
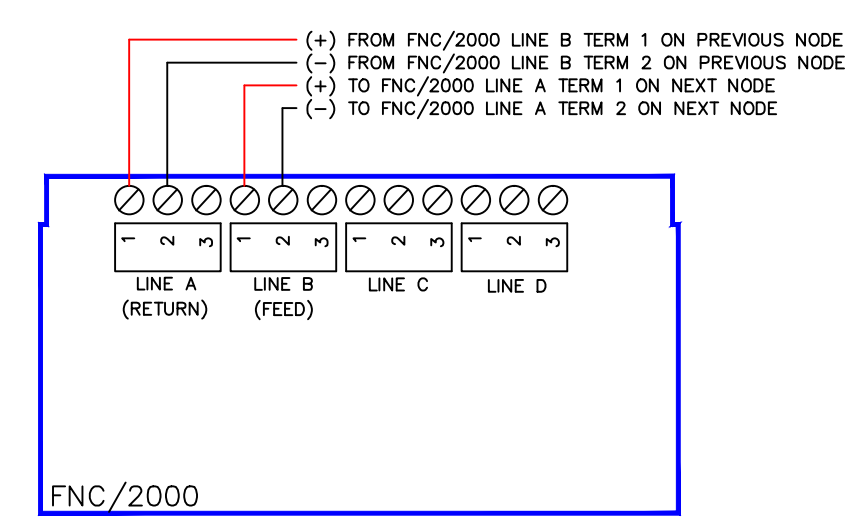
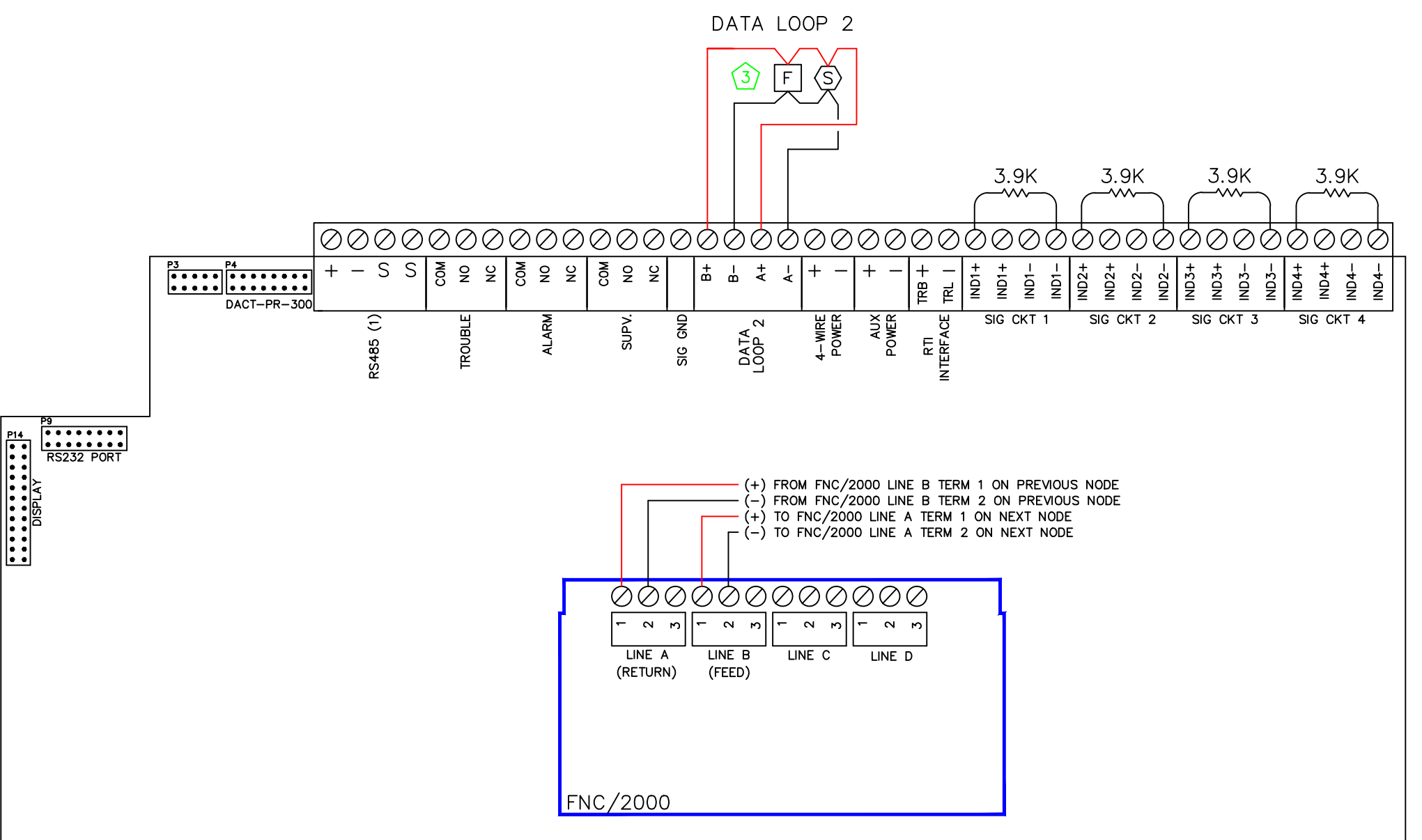
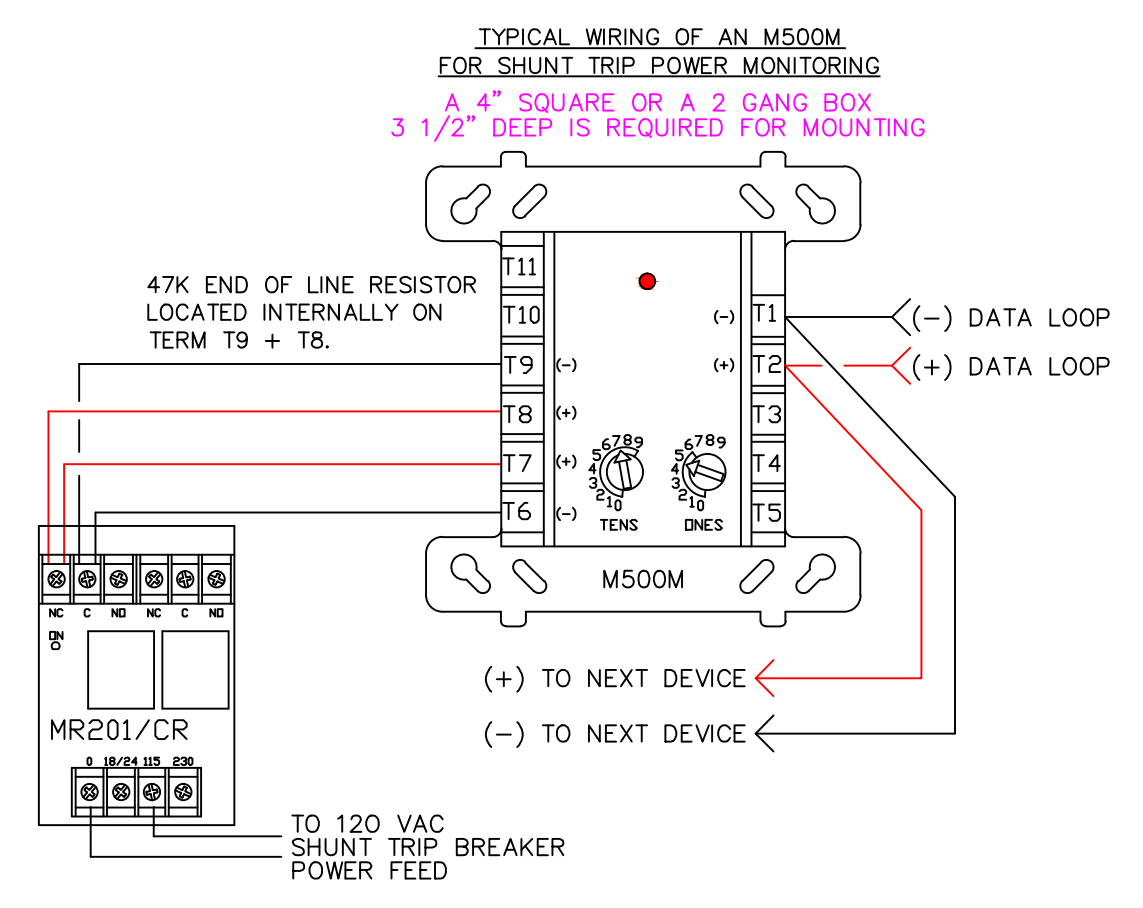
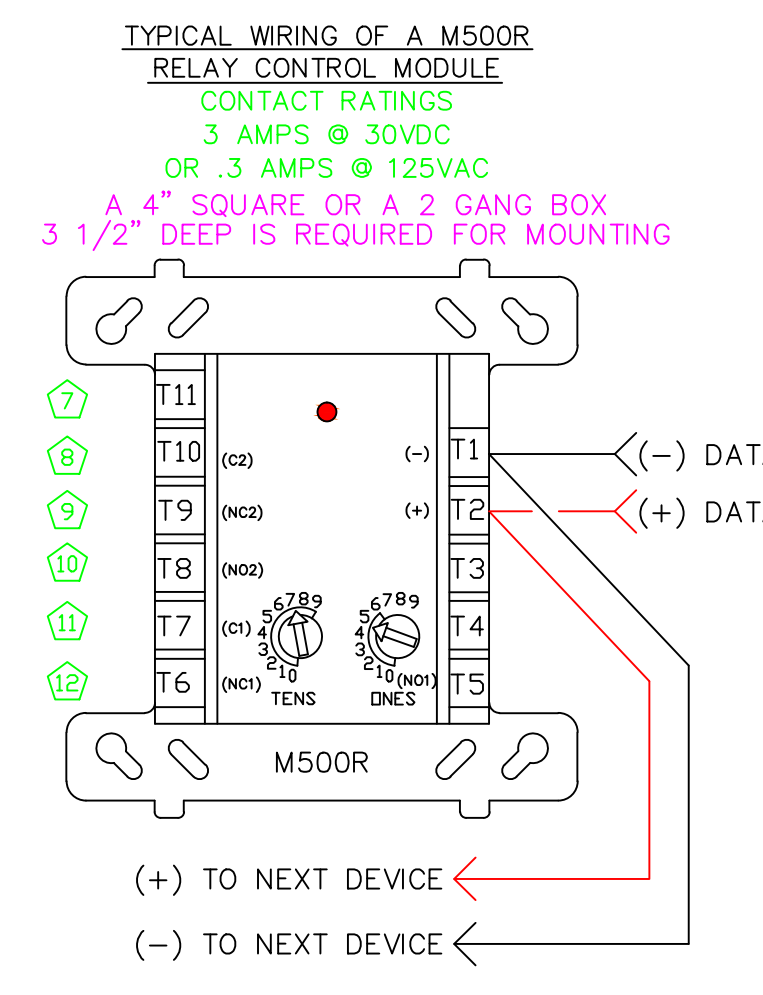
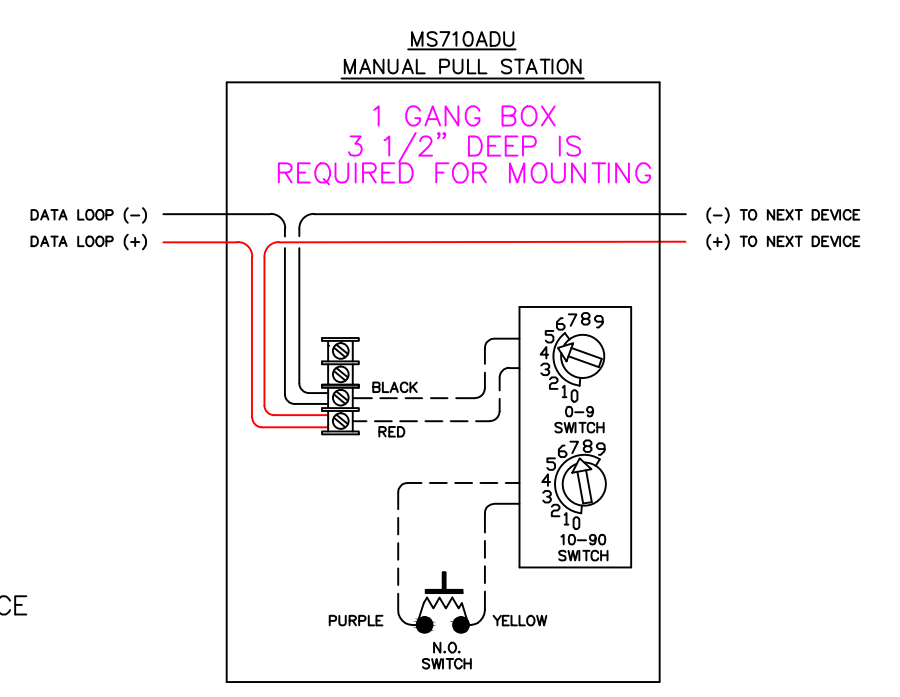
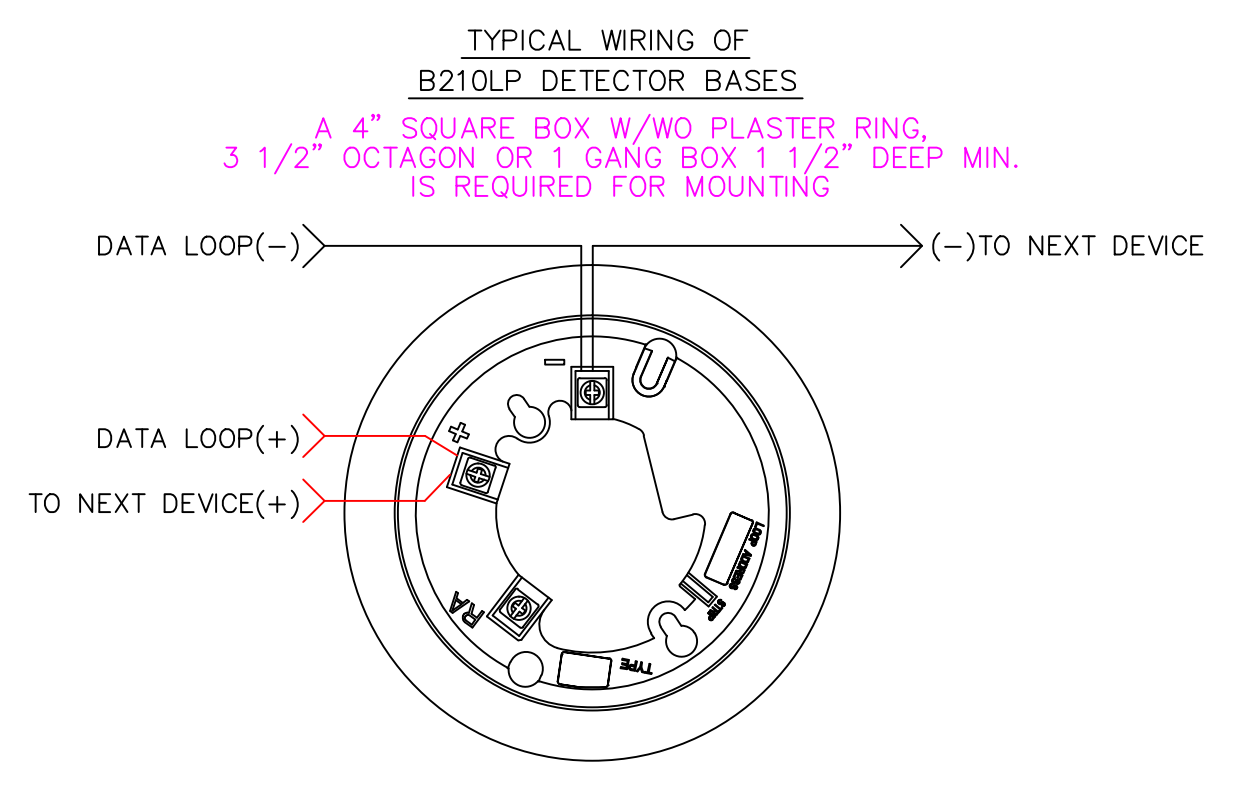
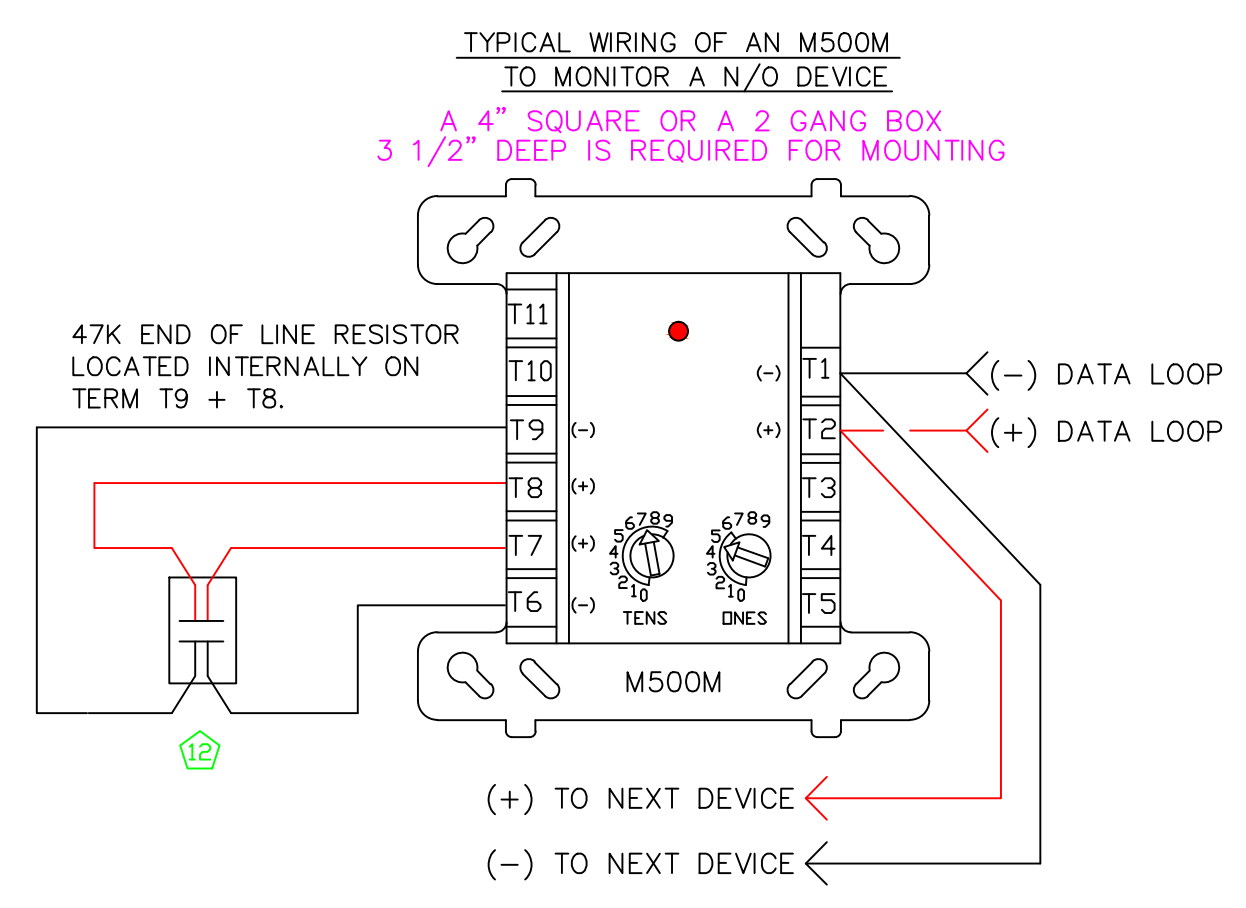
Prepared By:
MFA Mammoth Fire Alarms Incorporated
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PPM Property Protection Monitoring Incorporated
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Scale: None Approved By: Dave 9/20/16 Drawn By: MAD
 Date: 3/20/15 Revised: MAD 9/14/16

Project Info:
 Maine College of Art
 522 Congress Street Portland, Me.
 Prepared For: Menci Electric
 179 Sheridan Street Portland, Me. 04101
 Drawing No. 23536 4 OF 7



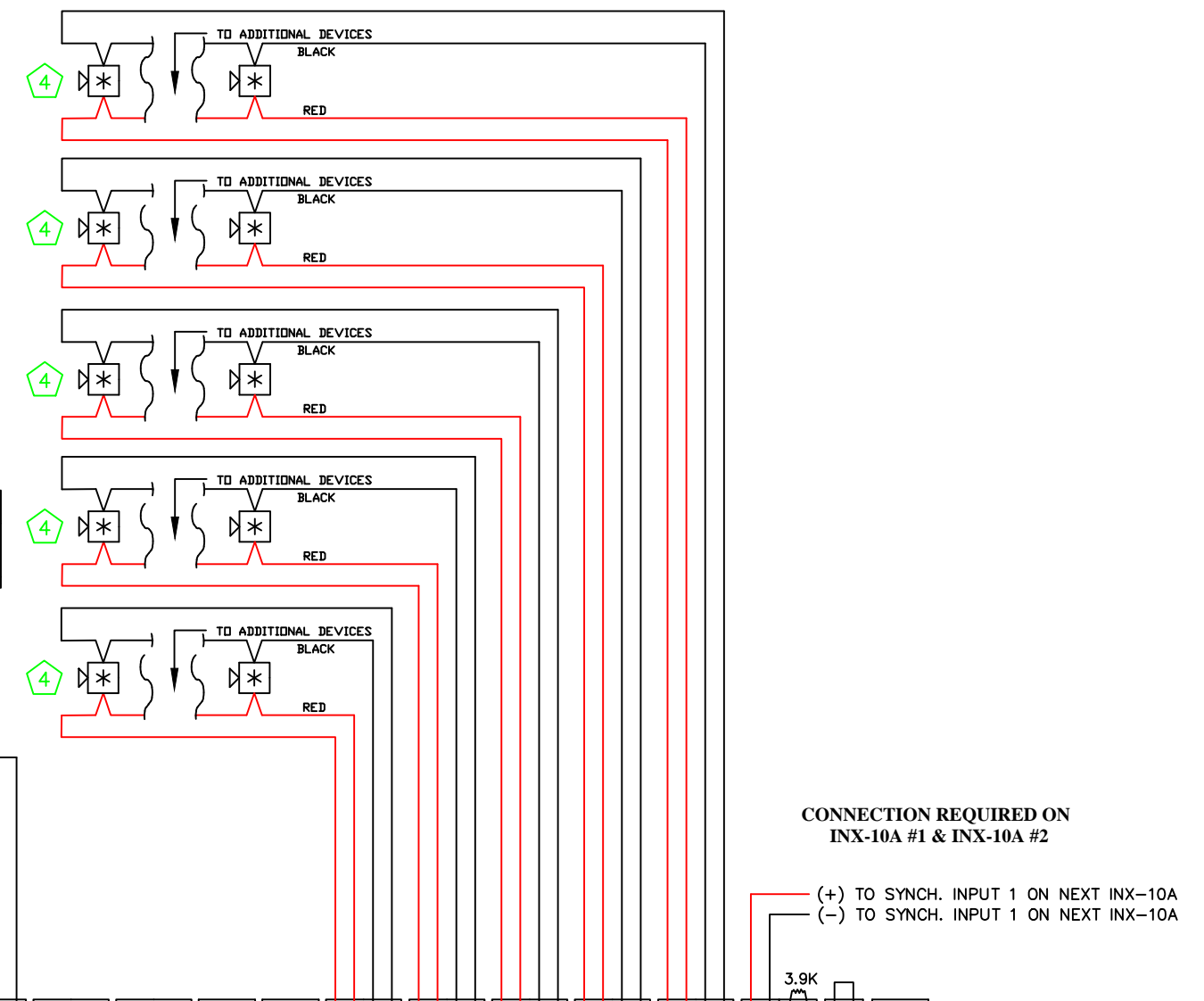
CONNECTION REQUIRED ON INX-10A #2 & INX-10A #3
FROM SYNCH OUTPUTS 1- ON PREVIOUS INX-10A
FROM SYNCH OUTPUTS 1+ ON PREVIOUS INX-10A

FROM IND- OF SIG CKT 1 ON FX-2000MNS
TO IND- OF SIG CKT 1 ON FX-2000MNS
FROM IND+ OF SIG CKT 1 ON FX-2000MNS
TO IND+ OF SIG CKT 1 ON FX-2000MNS

DATA LOOP (-)
TO NEXT DEVICE (-)
TO NEXT DEVICE (+)
DATA LOOP (+)

SW1 IS THE ADDRESS SWITCH BANK. SET SW1 SWITCHES 1-8 TO 1ST DESIRED ADDRESS. BOOSTER WILL AUTOMATICALLY UTILIZE THE FOLLOWING 9 ADDRESSES. (10 TOTAL)

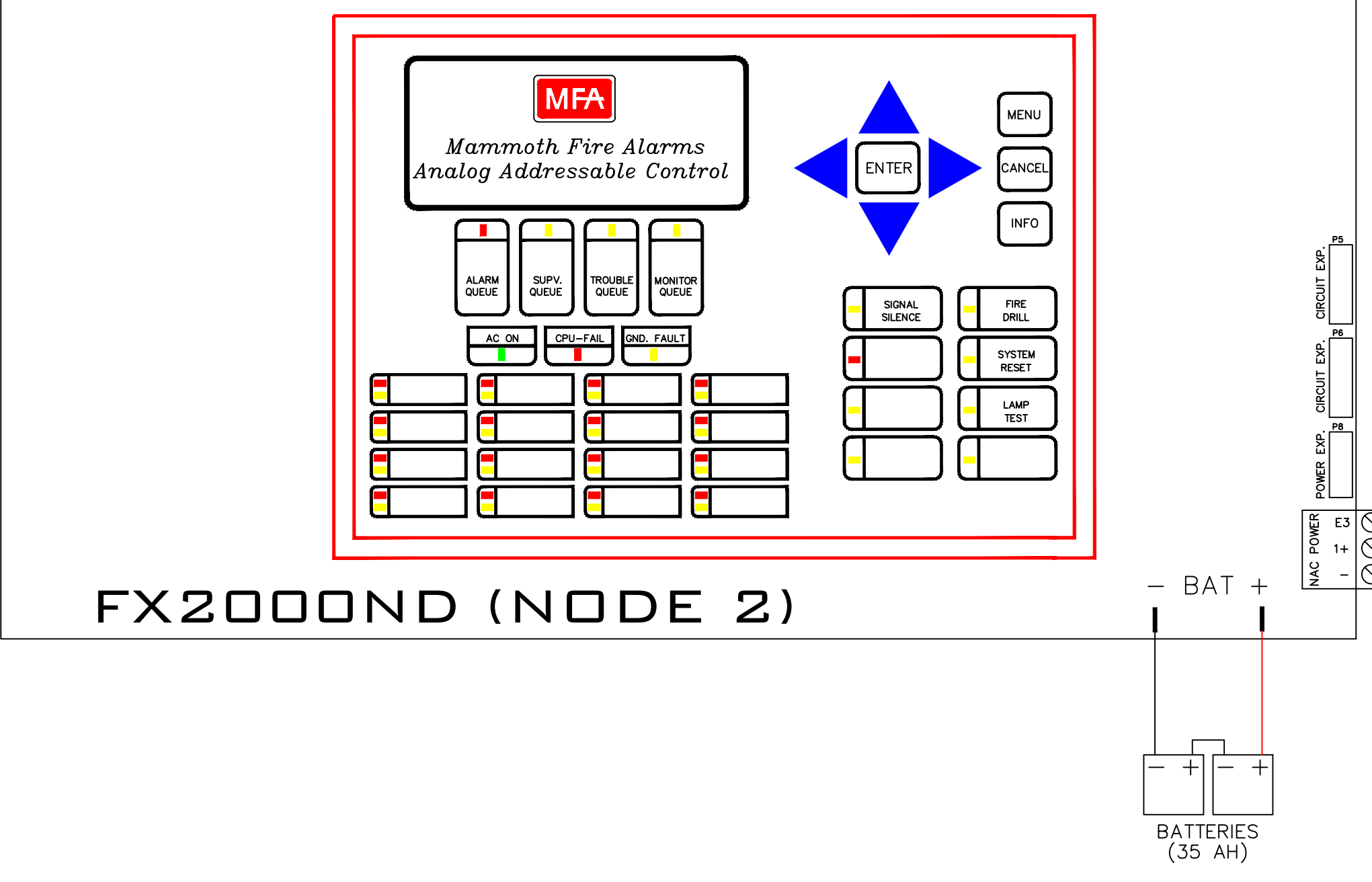
*SWITCH BANK 3 SWITCH 8 SETS MASTER/SLAVE OPERATION. SWITCH MUST BE DOWN ON INX-10A #1-#5 & UP ON INX-10A#6 FOR PROPER SYNCHRONIZATION.



CONNECTION REQUIRED ON INX-10A #1 & INX-10A #2
(+) TO SYNCH. INPUT 1 ON NEXT INX-10A
(-) TO SYNCH. INPUT 1 ON NEXT INX-10A

POWER ON
ADD. LINE ACTIVITY/ALARM
COMMON TROUBLE
BATTERY/CHARGER TROUBLE
CPU FAIL

AUX OUTPUT TROUBLE
SYNCH. OUT TROUBLE
GROUND FAULT



NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code. Failure to make a proper Earth Ground connection to a metal cold water pipe or a driven Ground Rod to this terminal will result in loss of Lightning protection, reduce the tolerance of the system to transients and will adversely affect its operation. Panel Neutral or Conduit Ground is not acceptable. Minimum Wire Size: 12 AWG

Signal Circuit Power Boosters are supplied for additional NAC power as well as to allow the installer to use smaller gauge wire over shorter signal runs. The Signal Circuit Power Booster should be installed in the field in close proximity to the Notification Appliances they are powering.

WARNING

THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DEVICES, THE WIRE TYPE AND THAT ALL WIRE SIZES MEET STATE AND LOCAL CODE REQUIREMENTS. THE INSTALLING CONTRACTOR IS ALSO RESPONSIBLE THAT THE INSTALLATION IS FREE OF ALL DEFECTS.

NOTES

- Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
- No AC voltage on any terminal other than those specified.
- Maximum line resistance is 40 Ohms, maximum line capacitance is 0.5 micro-Farad per loop.
- Existing Notification Devices. Device Type & Quantity Unknown.
- Existing Initiating Devices. Device type & Quantity Unknown.
- Existing Voice Devices. Device type & Quantity Unknown.
- To Elevator Controller, Recall Elevator To Primary Floor. Component must be installed within 3' of the controlled device.
- To Elevator Controller, Recall Elevator To Alternate Floor. Component must be installed within 3' of the controlled device.
- To Elevator Controller, Firemans Hat Warning Light. Component must be installed within 3' of the controlled device.
- To Elevator Shunt Trip Breaker. Component must be installed within 3' of the controlled device.
- HVAC Shutdown. Component must be installed within 3' of the controlled device.
- To Be Determined By Installing Contractor In Field. Component must be installed within 3' of the controlled device.
- Revised on 9/14/16

GENERAL NOTES

- ALL Fire Alarm System wiring shall comply with the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.
- CAUTION: DO NOT connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.
- DO NOT install FACP or smoke detectors in any unheated area.
- DO NOT install any AC current carrying conductors close to or in the same raceway with Fire alarm system conductors.
- Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.
- See Installation Manual for additional wiring instructions.
- All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A DONLY.
- FACP Indicating circuit outputs are 17 amps at 24 VDC per circuit. INX/10A circuit outputs are 2.5 amps, each. Not to exceed 10 amps total.
- Cabinet Dimensions:
NDEE 3 (BBX-FXMS) - L 61.500" W 20.000" D 9.000"
INX-10A - L 20.000" W 14.500" D 4.500"

SPECIAL FUNCTIONS

All Wiring To Be Class A.
Existing Strobes Are Not Synchronized & Will Not Be Synchronized With New Devices.

Audio Note:
Existing System is 70 VAC.
New Speaker devices are to be 25 VAC.
As a rule of thumb, speaker taps should be set according to strobe candle ratings.
15cd = 1/4 watt, 30cd = 1/2 watt, 75cd = 1 watt, & 110cd = 2 watts.
Individual speakers that do not have a strobe are generally set to 1/4 watt.
Ambient conditions in building may require further adjustments to meet the required decibel level.

Prepared By:
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Mammoth Fire Protection Systems Incorporated
1-877-637-5969
Lowell, MA 01854-3236

Scale: None Approved By: Drawn By: MAD
Date: 3/20/15 Dave 9/20/16 Revised: MAD 9/14/16

Project Info:
Maine College of Art
522 Congress Street Portland, Me.
Prepared For: Mammoth Electric
179 Sheridan Street Portland, Me. 04101
Drawing No. 25336 5 OF 7

NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code. Failure to make a proper Earth Ground connection to a metal cold water pipe or a driven Ground Rod to this terminal will result in loss of Lightning protection, reduce the tolerance of the system to transients and will adversely affect its operation. Panel Neutral or Conduit Ground is not acceptable. Minimum Wire Size: 12 AWG

Signal Circuit Power Boosters are supplied for additional NAC power as well as to allow the installer to use smaller gauge wire over shorter signal runs. The Signal Circuit Power Booster should be installed in the field in close proximity to the Notification Appliances they are powering.

WARNING

THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DEVICES, THE WIRE TYPE AND THAT ALL WIRE SIZES MEET STATE AND LOCAL CODE REQUIREMENTS. THE INSTALLING CONTRACTOR IS ALSO RESPONSIBLE THAT THE INSTALLATION IS FREE OF ALL DEFECTS.

NOTES

1. Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
2. No AC voltage on any terminal other than those specified.
3. Maximum line resistance is 40 Ohms, maximum line capacitance is 0.5 micro-Farad per loop.
4. Existing Notification Devices Device Type & Quantity Unknown.
5. Existing Initiating Devices Device type & Quantity Unknown.
6. Existing Voice Devices Device type & Quantity Unknown.
7. To Elevator Controller, Recall Elevator To Primary Floor. Component must be installed within 3' of the controlled device.
8. To Elevator Controller, Recall Elevator To Alternate Floor. Component must be installed within 3' of the controlled device.
9. To Elevator Controller, Firemans Hat Warning Light. Component must be installed within 3' of the controlled device.
10. To Elevator Shunt Trip Breaker. Component must be installed within 3' of the controlled device.
11. HVAC Shutdown. Component must be installed within 3' of the controlled device.
12. To Be Determined By Installing Contractor In Field. Component must be installed within 3' of the controlled device.
13. Revised on 9/14/16

GENERAL NOTES

1. ALL Fire Alarm System wiring shall comply with the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.
2. CAUTION: DO NOT connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.
3. DO NOT install FACP or smoke detectors in any unheated area.
4. DO NOT install any AC current carrying conductors close to or in the same raceway with Fire alarm system conductors.
5. Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.
6. See Installation Manual for additional wiring instructions.
7. All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A DNLY.
8. FACP Indicating circuit outputs are 17 amps at 24 VDC per circuit; INX/10A circuit outputs are 2.5 amps, each. Not to exceed 10 amps total.
9. Cabinet Dimensions:
NDE 3 (BBX-FXMS) - L 61.500" W 20.000" D 9.000"
INX-10A - L 20.000" W 14.500" D 4.500"

SPECIAL FUNCTIONS

All Wiring To Be Class A.
Existing Strobes Are Not Synchronized & Will Not Be Synchronized With New Devices.

Audio Note:
Existing System is 70 VAC.
New Speaker devices are to be 25 VAC.
As a rule of thumb, speaker taps should be set according to strobe candela ratings.
15cd = 1/4 watt, 30cd = 1/2 watt, 75cd = 1 watt, & 110cd = 2 watts.
Individual speakers that do not have a strobe are generally set to 1/4 watt.
Ambient conditions in building may require further adjustments to meet the required decibel level.

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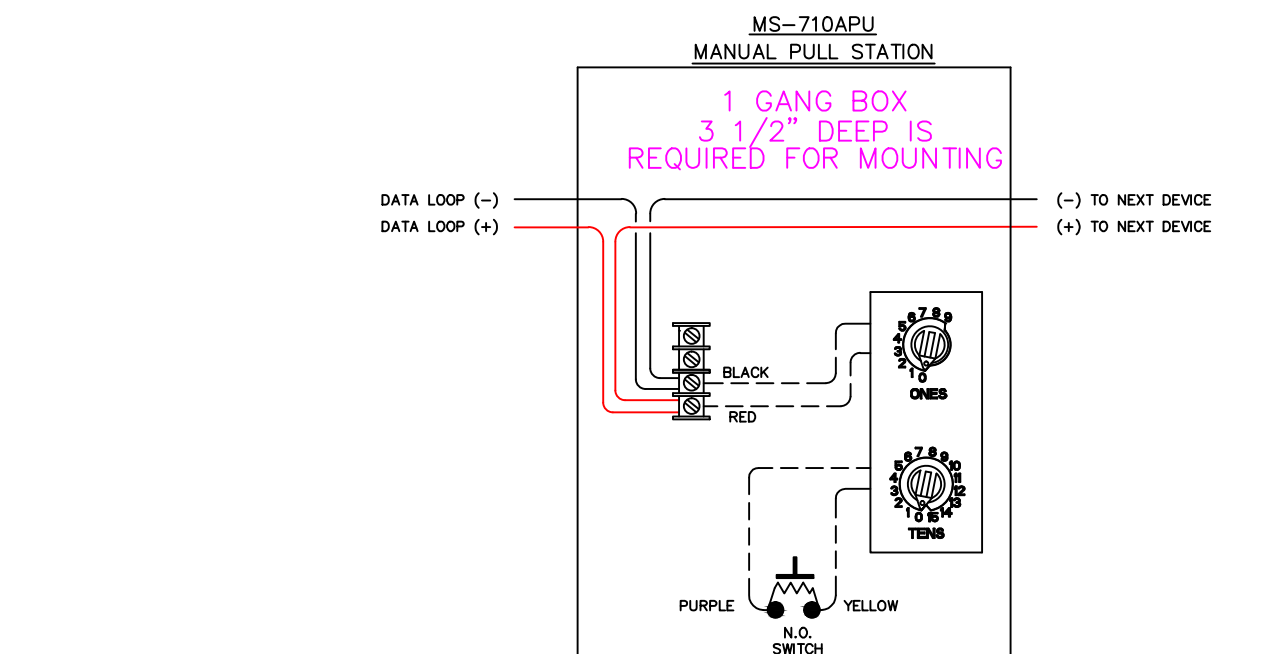
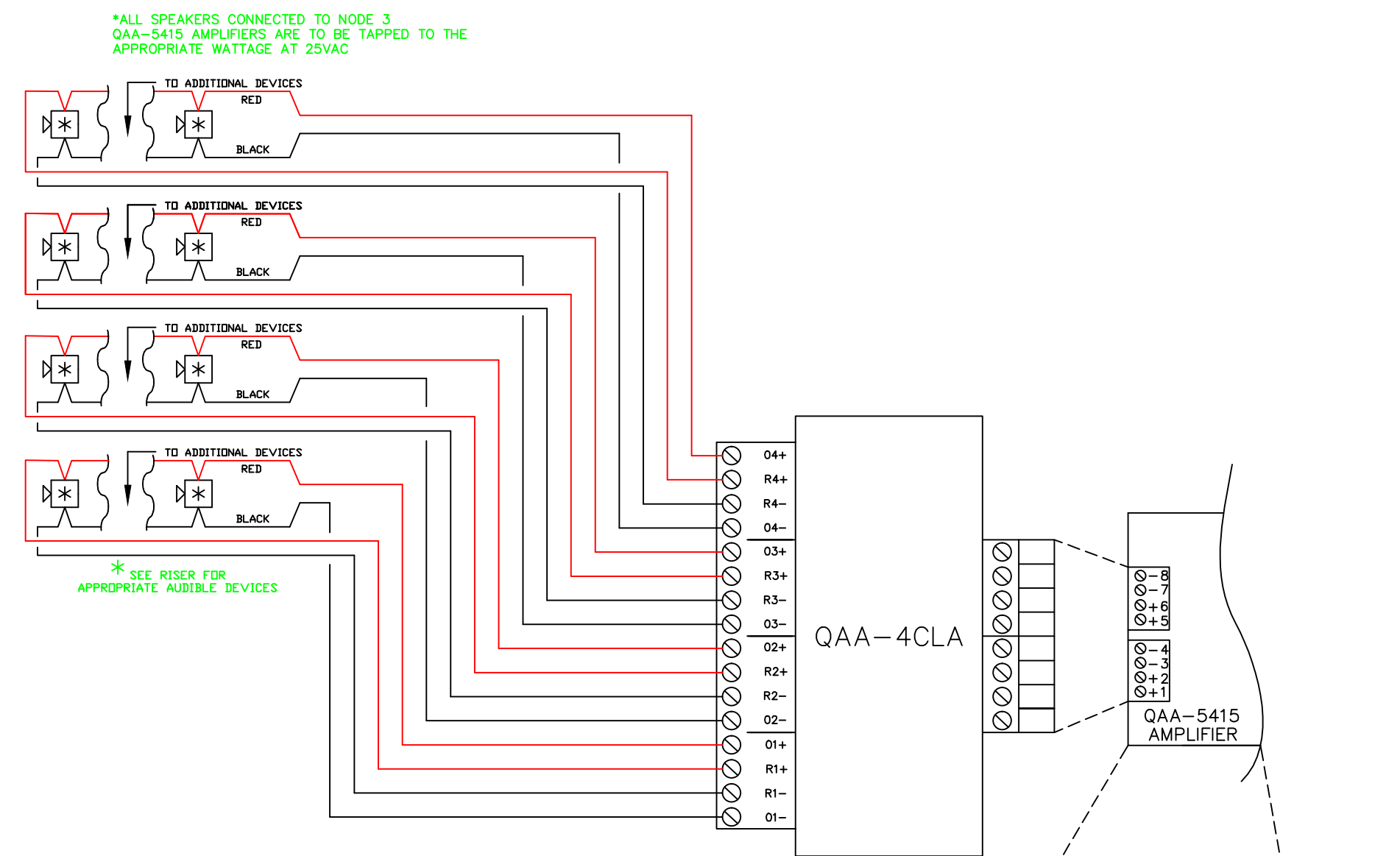
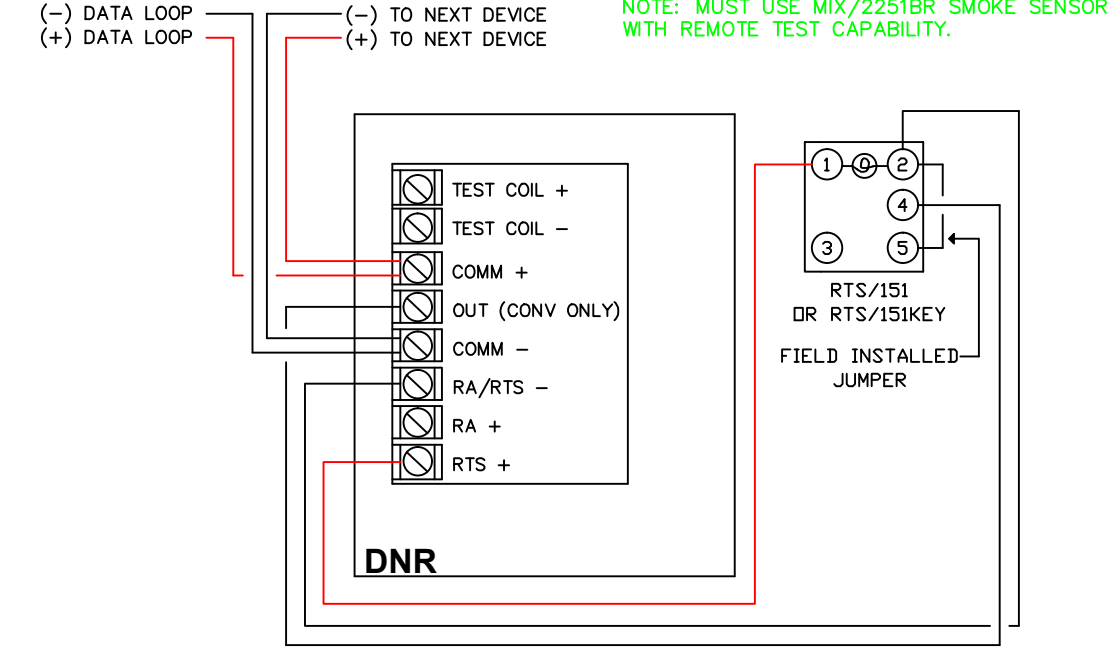
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Lowell, MA 01854-3126

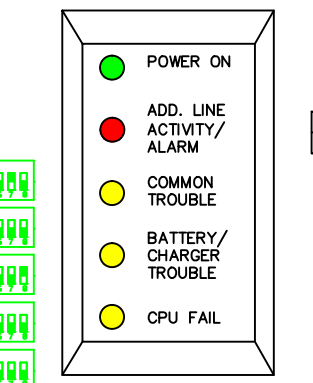
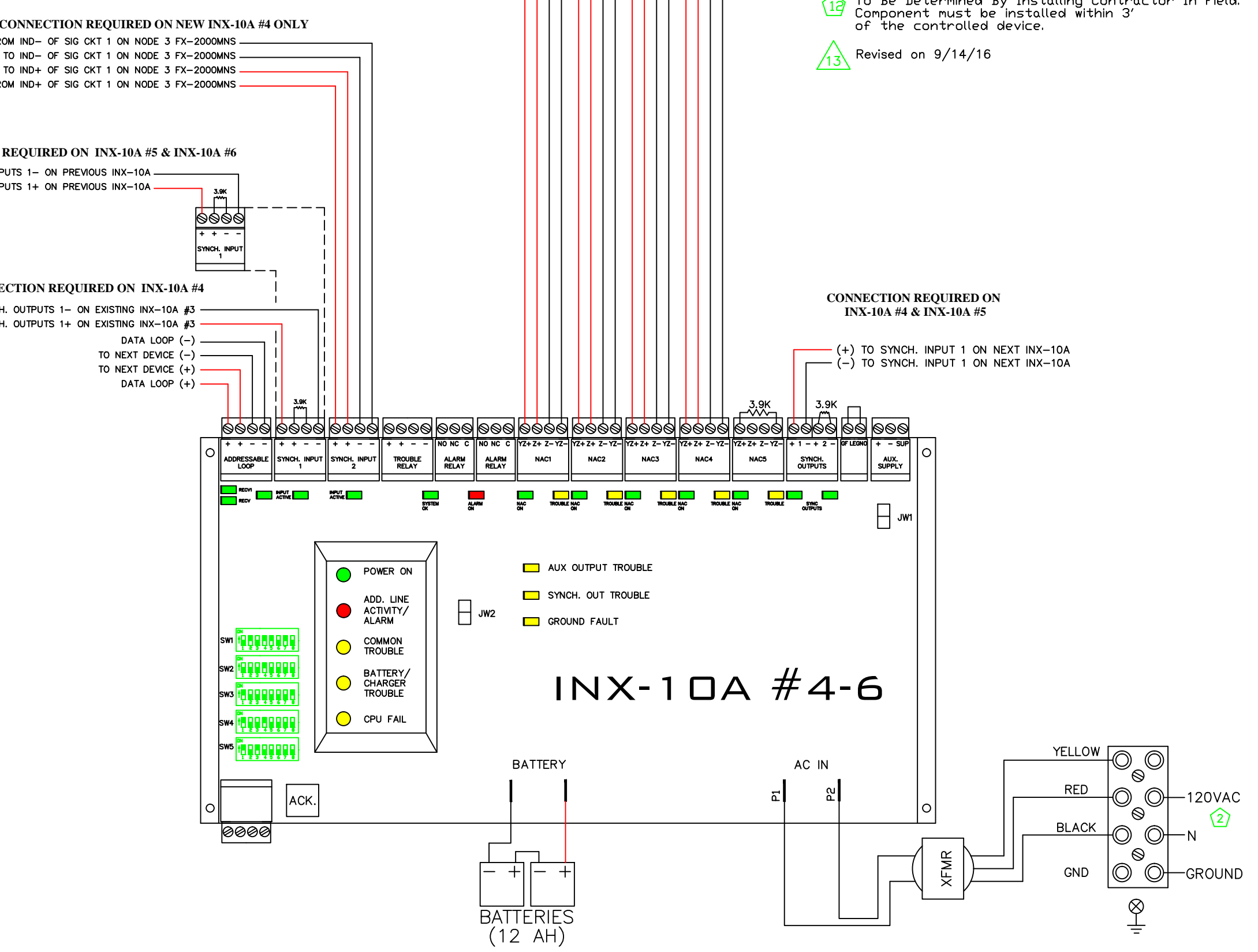
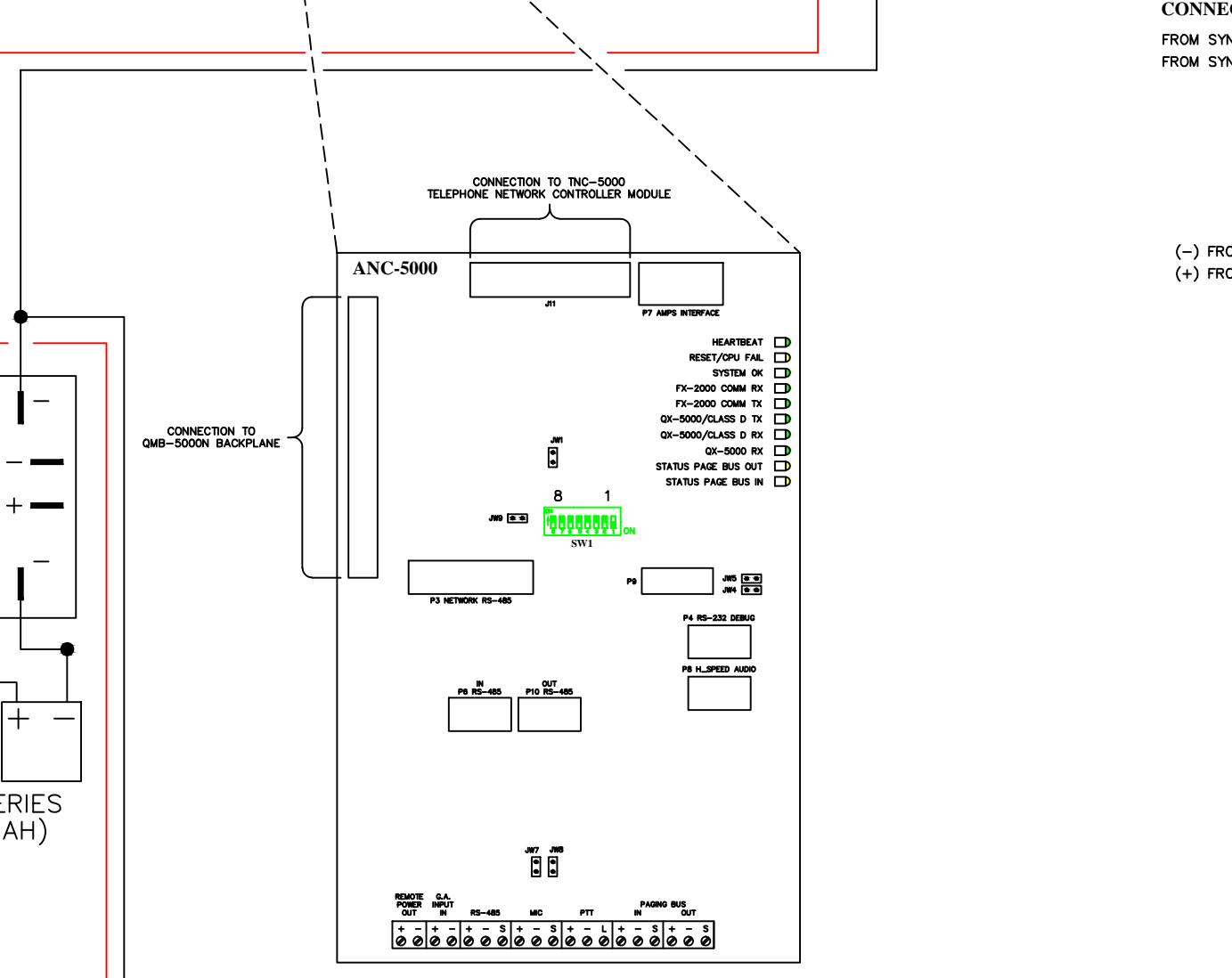
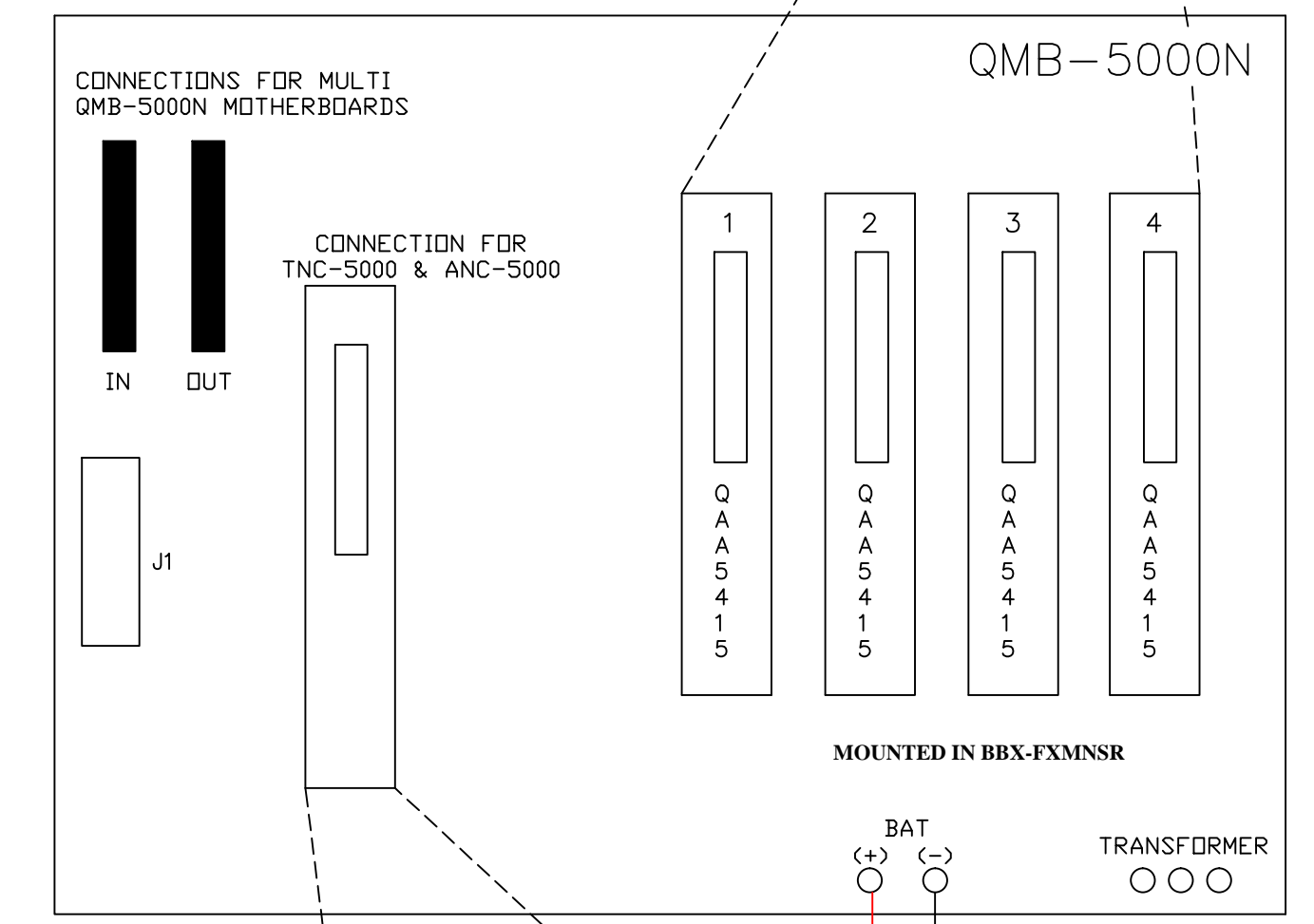
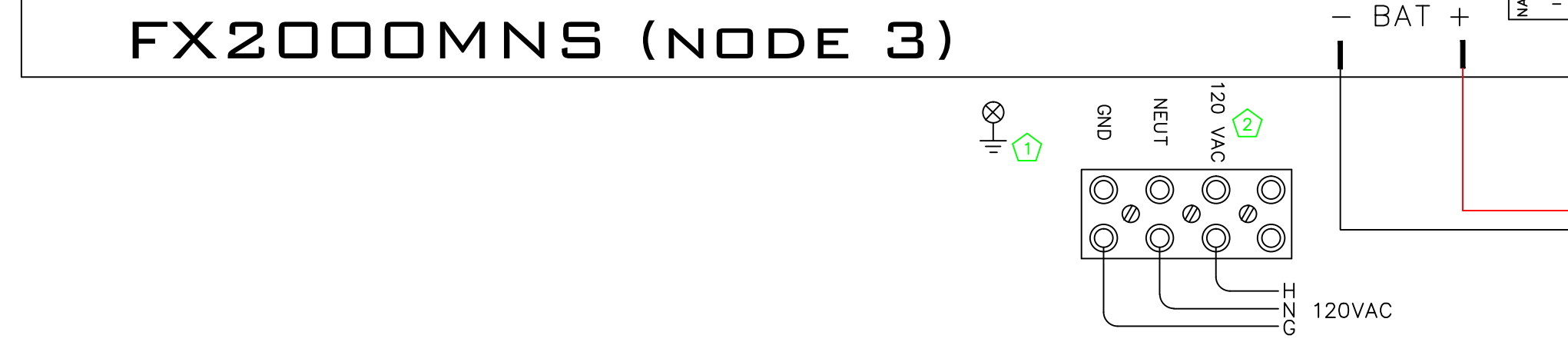
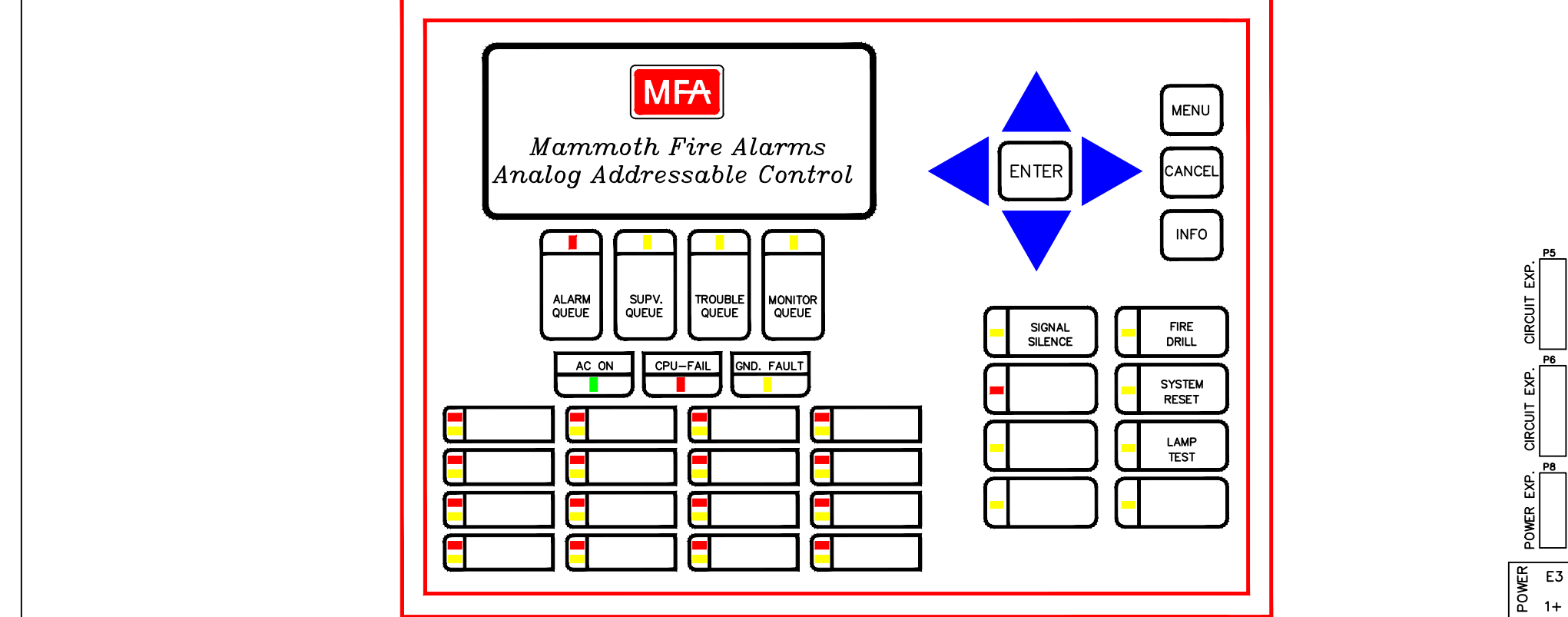
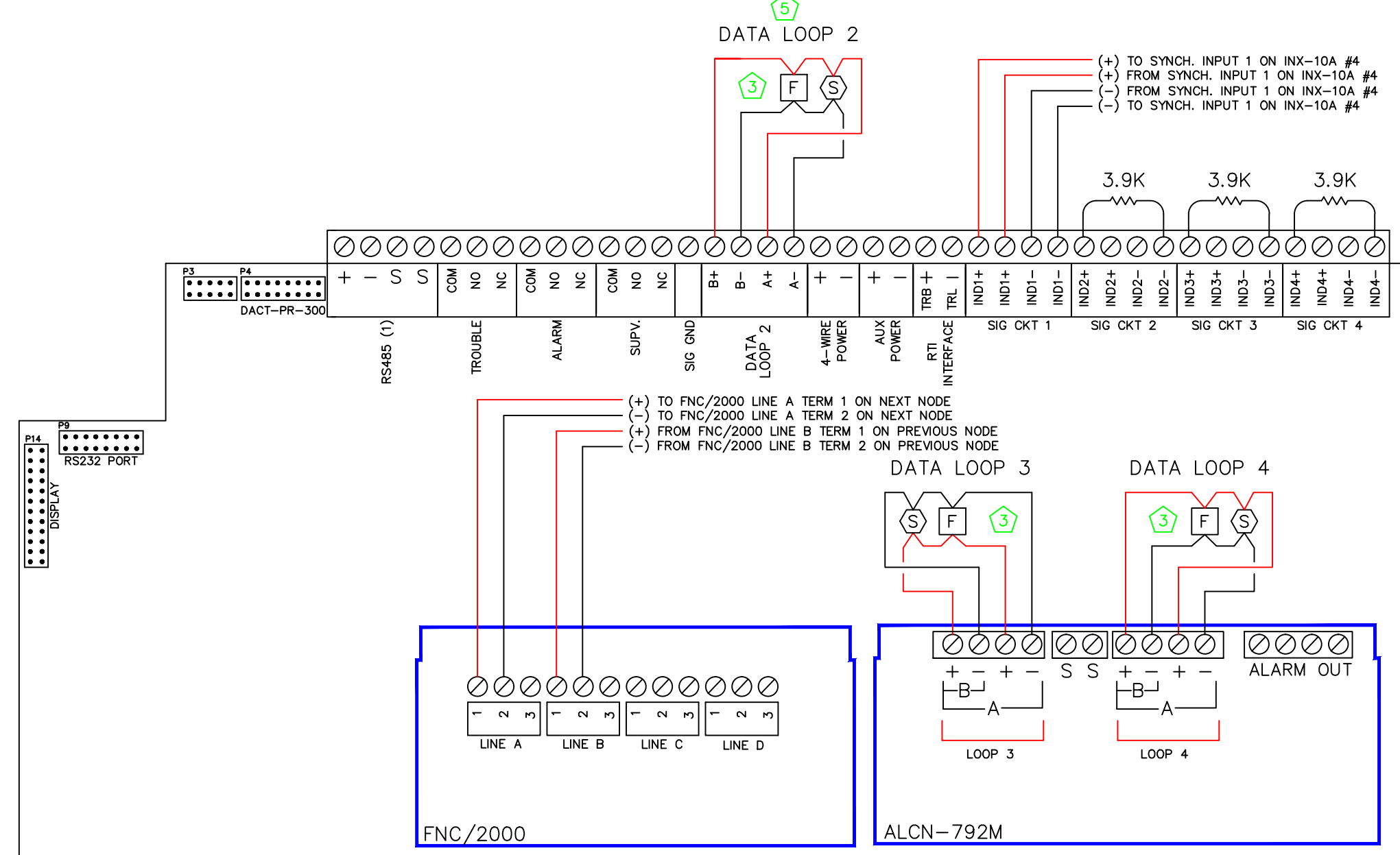
Scale: None Approved By: Drawn By: MAD
Date: 3/20/15 Dave 9/20/16 Revised: MAD 9/14/16

Project Info:
Maine College of Art
522 Congress Street Portland, Me.
Prepared For: Drawing No. 235326 6 OF 7
Mammoth Electric
179 Sheridan Street Portland, Me. 04101

TYPICAL WIRING OF A DNR ANALOG PHOTOELECTRIC DUCT SMOKE DETECTOR



PANEL AUTOMATICALLY ADDS 100 TO ALL MONITOR ADDRESSES FOR DIFFERENTIATION BETWEEN SENSORS AND MONITORS.
WHEN SETTING ADDRESS DISREGARD 100'S DIGIT ON ADDRESS DIRECTORY.
(EX: ADDRESS 101 ON ADDRESS DIRECTORY SHOULD HAVE TENS DIAL SET TO 0 & ONES DIAL SET TO 1.)



ADDRESS DIRECTORY

NODE 3 DATA LOOP 2

ADDRESS	MODULE	# OF DEVICES	LOCATION/DEVICES	TYPE	LOGIC OUTPUTS
L2S001	2251	1	1ST FLR SMOKE BACK HALL		GENERAL ALARM
L2S002	2251	1	1ST FLR SMOKE CENTER CORRIDOR		GENERAL ALARM
L2S003	2251	1	2ND FLR SMOKE HALL		GENERAL ALARM
L2M190	Input		INX Common Trouble	Trbl	Trouble Input Only
L2M191	Rly		INX Silence	Rly	Correlate to Signal Silence Only
L2M192	Input		INX AC Failure Trouble	Trbl	Trouble Input Only
L2M193	Input		INX Battery Trouble	Trbl	Trouble Input Only
L2M194	Input		INX Ground Fault Trouble	Trbl	Trouble Input Only
L2M195	Sig		INX Circuit 1 Control/Status	Sig	GENERAL ALARM
L2M196	Sig		INX Circuit 2 Control/Status	Sig	GENERAL ALARM
L2M197	Sig		INX Circuit 3 Control/Status	Sig	GENERAL ALARM
L2M198	Sig		INX Circuit 4 Control/Status	Sig	GENERAL ALARM
L2M199	Sig		INX Circuit 5 Control/Status	Sig	GENERAL ALARM

NODE 3 DATA LOOP 3

ADDRESS	MODULE	# OF DEVICES	LOCATION/DEVICES	TYPE	LOGIC OUTPUTS
L3S001	2251	1	3RD FLR SMOKE HALL 315		GENERAL ALARM
L3S002	2251	1	3RD FLR SMOKE HALL 315		GENERAL ALARM
L3S003	2251	1	3RD FLR SMOKE HALL BY STAIRWELL 3		GENERAL ALARM
L3S004	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S005	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S006	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S007	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S008	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S009	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S010	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S011	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S012	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3S013	5251	1	4TH FLR HEAT HALLWAY		GENERAL ALARM
L3M190	Input		INX Common Trouble	Trbl	Trouble Input Only
L3M191	Rly		INX Silence	Rly	Correlate to Signal Silence Only
L3M192	Input		INX AC Failure Trouble	Trbl	Trouble Input Only
L3M193	Input		INX Battery Trouble	Trbl	Trouble Input Only
L3M194	Input		INX Ground Fault Trouble	Trbl	Trouble Input Only
L3M195	Sig		INX Circuit 1 Control/Status	Sig	GENERAL ALARM
L3M196	Sig		INX Circuit 2 Control/Status	Sig	GENERAL ALARM
L3M197	Sig		INX Circuit 3 Control/Status	Sig	GENERAL ALARM
L3M198	Sig		INX Circuit 4 Control/Status	Sig	GENERAL ALARM
L3M199	Sig		INX Circuit 5 Control/Status	Sig	GENERAL ALARM

NODE 3 DATA LOOP 4

ADDRESS	MODULE	# OF DEVICES	LOCATION/DEVICES	TYPE	LOGIC OUTPUTS
L4S001	2251	1	5TH FLR SMOKE STAIRWELL 2		GENERAL ALARM
L4S002	2251	1	5TH FLR SMOKE STAIRWELL 3		GENERAL ALARM
L4S003	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S004	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S005	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S006	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S007	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S008	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S009	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S010	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S011	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S012	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S013	5251	1	5TH FLR HEAT HALLWAY		GENERAL ALARM
L4S015	5251	1	ROOF HEAT		GENERAL ALARM
L4S016	5251	1	ROOF HEAT		GENERAL ALARM
L4S017	5251	1	ROOF HEAT		GENERAL ALARM
L4S018	5251	1	ROOF HEAT		GENERAL ALARM
L4S019	5251	1	ROOF HEAT		GENERAL ALARM
L4M190	Input		INX Common Trouble	Trbl	Trouble Input Only
L4M191	Rly		INX Silence	Rly	Correlate to Signal Silence Only
L4M192	Input		INX AC Failure Trouble	Trbl	Trouble Input Only
L4M193	Input		INX Battery Trouble	Trbl	Trouble Input Only
L4M194	Input		INX Ground Fault Trouble	Trbl	Trouble Input Only
L4M195	Sig		INX Circuit 1 Control/Status	Sig	GENERAL ALARM
L4M196	Sig		INX Circuit 2 Control/Status	Sig	GENERAL ALARM
L4M197	Sig		INX Circuit 3 Control/Status	Sig	GENERAL ALARM
L4M198	Sig		INX Circuit 4 Control/Status	Sig	GENERAL ALARM
L4M199	Sig		INX Circuit 5 Control/Status	Sig	GENERAL ALARM

NOTICE

Ground terminal must be connected to Earth Ground per Article 760 of the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.

2. **CAUTION: DO NOT** connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.

3. **DO NOT** install FACP or smoke detectors in any unheated area.

4. **DO NOT** install any AC current carrying conductors close to or in the same raceway with fire alarm system conductors.

5. Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.

6. See Installation Manual for additional wiring instructions.

7. All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A ONLY.

8. FACP indicating circuit outputs are 17 amps at 24 VDC per circuit. INX/IOA circuit outputs are 2.5 amps each. Not to exceed 10 amps total.

9. Cabinet Dimensions:
 NODE 3 (8BX-FXMS) - L 61.500" W 20.000" D 9.000"
 INX-IOA - L 20.000" W 14.500" D 4.500"

Signal Circuit Power Boosters are supplied for additional NAC power as well as to allow the installer to use smaller gauge wire over shorter signal runs.

The Signal Circuit Power Booster should be installed in the field in close proximity to the Notification Appliances they are powering.

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NOTES

1. Must be grounded to a driven ground rod or the cold water pipe on the street side of the main shut off valve.
2. No AC voltage on any terminal other than those specified.
3. Maximum line resistance is 40 Ohms, maximum line capacitance is 0.5 micro-Farad per loop.
4. Existing Notification Devices Device Type & Quantity Unknown.
5. Existing Initiating Devices Device type & Quantity Unknown.
6. Existing Voice Devices Device type & Quantity Unknown.
7. To Elevator Controller, Recall Elevator To Primary Floor. Component must be installed within 3' of the controlled device.
8. To Elevator Controller, Recall Elevator To Alternate Floor. Component must be installed within 3' of the controlled device.
9. To Elevator Controller, Fireman's Hat Warning Light. Component must be installed within 3' of the controlled device.
10. To Elevator Shunt Trip Breaker. Component must be installed within 3' of the controlled device.
11. HVAC Shutdown. Component must be installed within 3' of the controlled device.
12. To Be Determined By Installing Contractor In Field. Component must be installed within 3' of the controlled device.
13. Revised on 9/14/16

NODE 1 DATA LOOP 5

ADDRESS	MODULE	# OF DEVICES	LOCATION/DEVICES	TYPE	LOGIC OUTPUTS
L5S001	2251	1	BASEMENT SMOKE OVER FACP		GENERAL ALARM
L5S002	2251	1	BASEMENT SMOKE ART GALLERY		GENERAL ALARM
L5S003	2251	1	BASEMENT SMOKE ART GALLERY		GENERAL ALARM
L5S004	2251	1	BASEMENT SMOKE ART GALLERY		GENERAL ALARM
L5S005	2251	1	BASEMENT SMOKE ART GALLERY		GENERAL ALARM
L5S006	2251	1	BASEMENT SMOKE MAIN STAIRS		GENERAL ALARM
L5S007	2251	1	BASEMENT SMOKE GALLERY STORAGE		GENERAL ALARM
L5S008	2251	1	BASEMENT SMOKE GALLERY STORAGE		GENERAL ALARM
L5S009	2251	1	BASEMENT SMOKE UTILITY ROOM		GENERAL ALARM
L5S010	2251	1	BASEMENT SMOKE PUMP ROOM		GENERAL ALARM
L5S011	2251	1	BASEMENT SMOKE FRT ELEV LOBBY		GENERAL ALARM
L5S012	2251	1	BASEMENT SMOKE HALL 3		GENERAL ALARM
L5S013	2251	1	BASEMENT SMOKE HALL 3		GENERAL ALARM
L5S014	2251	1	BASEMENT SMOKE HALL 3		GENERAL ALARM
L5S015	2251	1	BASEMENT SMOKE HALL 1		GENERAL ALARM
L5S016	2251	1	BASEMENT SMOKE HALL 1		GENERAL ALARM
L5S017	2251	1	BASEMENT SMOKE BY COMP LAB		GENERAL ALARM
L5S018	2251	1	BASEMENT SMOKE BY NEW STAIRS		GENERAL ALARM
L5S019	2251	1	BASEMENT SMOKE HALL 2		GENERAL ALARM
L5S020	2251	1	BASEMENT SMOKE HALL 2		GENERAL ALARM
L5S021	2251	1	BASEMENT SMOKE ELEV LOBBY		GENERAL ALARM
L5S022	2251	1	BASEMENT SMOKE GALLERY LOBBY		GENERAL ALARM
L5S023	2251	1	BASEMENT SMOKE STORAGE		GENERAL ALARM
L5S024	2251	1	BASEMENT SMOKE REAR STAIR		GENERAL ALARM
L5S025	2251	1	BASEMENT SMOKE DET TBD		GENERAL ALARM
L5S026	2251BR	1	BASEMENT DUCT SMOKE DETECTOR		GENERAL ALARM
L5S027	2251	1	BASEMENT SMOKE DETECTOR		GENERAL ALARM
L5S028	2251	1	BASEMENT SMOKE DETECTOR		GENERAL ALARM
L5S029	2251	1	BASEMENT SMOKE DETECTOR		GENERAL ALARM
L5S030	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S031	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S032	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S033	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S034	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S035	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S036	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5S037	5251	1	BASEMENT HEAT DETECTOR		GENERAL ALARM
L5M101	710	1	BASEMENT PULL BY MAIN STAIRS		GENERAL ALARM
L5M102	710	1	BASEMENT PULL BY NEW STAIRS		GENERAL ALARM
L5M103	710	1	BASEMENT PULL BY REAR STAIRS		GENERAL ALARM
L5M104	710	1	BASEMENT PULL BY FREIGHT ELEV		GENERAL ALARM
L5M112	M500R	1	PRIMARY ELEV RECALL		Elev Recall Sequence to be Det on Site
L5M113	M500R	1	ALT ELEVATOR RECALL		Elev Recall Sequence to be Det on Site
L5M114	M500R	1	FIRE HAT		Elev Recall Sequence to be Det on Site
L5M115	M500R	1	SHUNT TRIP		Elev Recall Sequence to be Det on Site
L5M116	M500M	1	MONITOR SHUNT TRIP POWER		Supervisory
L5M117	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M118	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M119	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M120	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M121	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M122	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M123	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M124	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M125	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M126	M500M	1	BASEMENT MONITOR MODULE		TO BE DETERMINED
L5M127	M500R	1	BASEMENT RELAY MODULE		TO BE DETERMINED
L5M128	M500R	1	BASEMENT RELAY MODULE		TO BE DETERMINED
L5M129	M500R	1	BASEMENT RELAY MODULE		TO BE DETERMINED
L5M130	M500R	1	BASEMENT RELAY MODULE		TO BE DETERMINED
L5M131	MS710	1	BASEMENT PULL STATION		GENERAL ALARM
L5M132	M500R	1	BASEMENT RELAY MODULE	Trbl	Trouble Input Only
L5M190	Input		Basement INX Common Trouble	Trbl	Trouble Input Only
L5M191	Rly		Basement INX Silence	Rly	Correlate to Signal Silence Only
L5M192	Input		Basement INX AC Failure Trouble	Trbl	Trouble Input Only
L5M193	Input		Basement INX Battery Trouble	Trbl	Trouble Input Only
L5M194	Input		Basement INX Ground Fault Trouble	Trbl	Trouble Input Only
L5M195	Sig		Basement INX Circuit 1 Control/Status	Sig	GENERAL ALARM
L5M196	Sig		Basement INX Circuit 2 Control/Status	Sig	GENERAL ALARM
L5M197	Sig		Basement INX Circuit 3 Control/Status	Sig	GENERAL ALARM
L5M198	Sig		Basement INX Circuit 4 Control/Status	Sig	GENERAL ALARM
L5M199	Sig		Basement INX Circuit 5 Control/Status	Sig	GENERAL ALARM

GENERAL NOTES



1. ALL Fire Alarm System wiring shall comply with the National Electrical Code, Applicable State and Local Fire and Safety Codes, as well as being coordinated with the Local Authority Having Jurisdiction.
2. **CAUTION: DO NOT** connect any power to control panel (batteries or 120 vac) until all other field wiring is tested and connected.
3. **DO NOT** install FACP or smoke detectors in any unheated area.
4. **DO NOT** install any AC current carrying conductors close to or in the same raceway with fire alarm system conductors.
5. Dotted lines indicate factory wiring. Solid lines indicate connections to be made by the installer.
6. See Installation Manual for additional wiring instructions.
7. All relays are shown in normal supervisory condition. All relay dry contacts 28 VDC @ 1A ONLY.
8. FACP indicating circuit outputs are 17 amps at 24 VDC per circuit. INX/IOA circuit outputs are 2.5 amps each. Not to exceed 10 amps total.
9. Cabinet Dimensions:
 NODE 3 (8BX-FXMS) - L 61.500" W 20.000" D 9.000"
 INX-IOA - L 20.000" W 14.500" D 4.500"

SPECIAL FUNCTIONS

All Wiring To Be Class A.
 Existing Strobes Are Not Synchronized & Will Not Be Synchronized With New Devices.

Audio Note:
 Existing System is 70 VAC.
 New Speaker devices are to be 25 VAC.
 As a rule of thumb, speaker taps should be set according to strobe candella ratings.
 15cd = 1/4 watt, 30cd = 1/2 watt, 75cd = 1 watt, & 110cd = 2 watts.
 Individual speakers that do not have a strobe are generally set to 1/4 watt.
 Ambient conditions in building may require further adjustments to meet the required decibel level.

Prepared By:
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 1-800-995-9808
 Lowell, MA 01854-3126

Scale: None Approved By: Drawn By: MAD
 Date: 3/20/15 Dave 9/20/16 Revised: MAD 9/14/16

Project Info:
 Maine College of Art
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 Prepared For: Drawing No.
 Mancini Electric 23536
 179 Sheridan Street Portland, Me. 04101 7 OF 7