

FIRE ALARM GENERAL NOTES	
NOTE#	NOTE TEXT
1.	ALL CIRCUIT POLARITY SHALL BE MAINTAINED.
2.	SHIELD CONTINUITY SHALL BE MAINTAINED THROUGH OUT ALL SHIELDED CIRCUITS. SHIELDS SHALL BE GROUNDED AT ONLY ONE POINT (THE EQUIPMENT HEAD END UNLESS NOTED OTHERWISE).
3.	ALL CIRCUITS SHALL BE FREE OF GROUNDS, WIRE TO WIRE SHORTS, AND OPENS.
4.	NOTIFICATION APPLIANCE CIRCUITS (NAC) & INITIATING DEVICE CIRCUITS (IDC) ARE SUPERVISED. NO PARALLEL BRANCHING (TEE-TAPPING) SHALL BE PERMITTED. NON-STYLE 6 & 7 SIGNALING LINE CIRCUITS (SLC) ALLOW PARALLEL BRANCHING (TEE-TAPPING) AT DEVICES AND RISER BOXES ONLY.
5.	ALL FIRE ALARM CONDUIT SHALL BE SIZED TO MEET OR EXCEED THE NEC MINIMUM REQUIREMENTS. ALL FIRE ALARM CONDUIT SIZE SHALL BE 3/4" MINIMUM UNLESS SHOWN OTHERWISE. STUB-UPS TO INDIVIDUAL DEVICES ALLOWED TO BE IN 1/2".
6.	INSTALLATION MATERIALS (I.E. CONDUIT, FITTINGS, HANGERS, STANDARD BOXES, ETC.) ARE NOT PROVIDED BY MIDWEST ALARM SERVICES.
7.	ON OPEN WIRE INSTALLATIONS CONDUIT SHALL BE PROVIDED BY OTHERS THROUGH ALL INACCESSIBLE AREAS (I.E. ABOVE HARD CEILINGS, STUB-UPS THROUGH ENCLOSED WALLS, ECT.) AND IN ALL EXPOSED AREAS (I.E. MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.).
8.	MANUAL PULL BOXES SHALL BE MOUNTED 48" AFF TO THE ACTUATING HANDLE.
9.	WALL-MOUNTED AUDIBLE/VISUAL & VISUAL ONLY DEVICES SHALL BE MOUNTED 80" AFF TO THE BOTTOM OF THE DEVICE OR 6" FROM THE CEILING TO THE TOP OF THE DEVICE WHICHEVER IS LOWER.
10.	INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, NFPA CODES, LOCAL CODES, AUTHORITIES HAVING JURISDICTION AND ALL OF THE MANUFACTURERS REQUIREMENTS.
11.	ALL FIRE ALARM CONTROL RELAYS SHALL BE MOUNTED WITHIN 3' OF THE DEVICES THEY CONTROL. ALL RELAY CONTROL CIRCUITS SHALL BE SUPERVISED.
12.	ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED OR LABELED FOR DISTINCT IDENTIFICATION.
13.	ALL FIRE ALARM PANELS & EQUIPMENT CABINETS REQUIRE A DEDICATED 120VAC CIRCUIT FOR PRIMARY POWER. FIRE ALARM AC POWER CIRCUITS SHALL BE PERMANENTLY IDENTIFIED AT THE DISTRIBUTION PANEL AND INSIDE THE FIRE EQUIPMENT CABINETS SERVED.

CODE REFERENCES		
#	REFERENCED CODE	YEAR
1	International Building Code (IBC)	2018
2	International Fire Code (IFC)	2018
3	NFPA 70 National Electrical Code	2017
4	NFPA 72 National Fire Alarm Code	2016
5	NFPA 90A Standard on AC & Ventilating	2018

AUTHORITY HAVING JURISDICTION	
City of Lee's Summit, MO	

PROJECT NARRATIVE	
This project is a new apartment building complex including a clubhouse. All buildings are fully sprinklered per NFPA 13R. An addressible fire alarm system is being provided in each building with horn/strobe notification.	
Clubhouse According to contract documents, the clubhouse building is occupancy group B and S-1 with areas of R-3 and A-3. None of the five AHUs are over 2,000 CFM to require detection and shutdown. Single-Station smoke and CO detectors for the R-3 area are provided by others.	
Apartment Units According to contract documents, the apartment buildings are primary occupancy group R-2 with areas of A-3. Single-Station smoke and CO detectors for the R-2 area are provided by others. CO detection on bldg system is provided in the 1st floor corridor at communicating openings to the attached garages per IFC 915.1.5 exception #4. Wiring provisions for building notification in sleeping areas is provided and included in circuit calculations per code. None of the six AHUs are over 2,000 CFM to require detection and shutdown.	
The Clubhouse building was submitted earlier. Sheets grayed out in the drawing index are not included this set.	

RESIDENCES AT BLACKWELL

US 50 Hwy at Blackwell
Lee's Summit, MO 64063
Fire Alarm System 28300

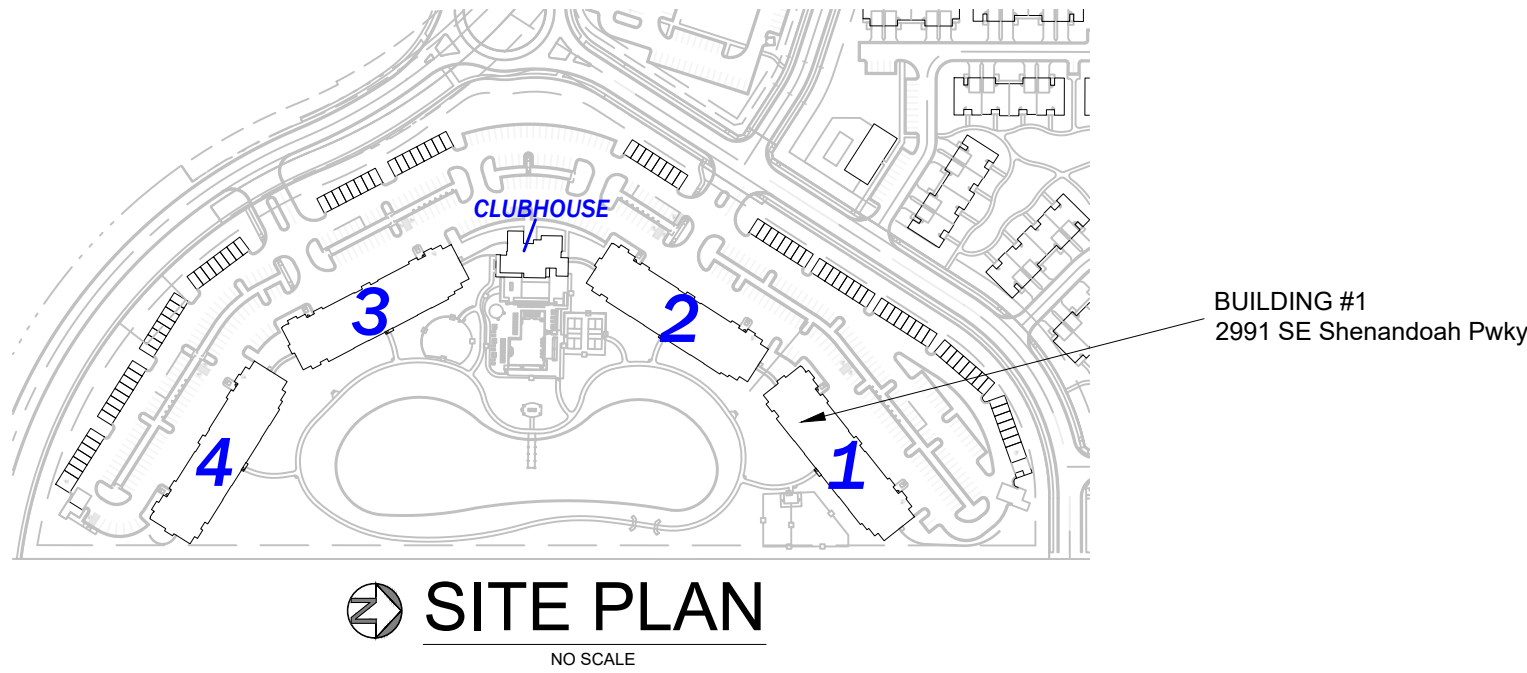
Apartment Bldg #1 - 2991 SE Shenandoah Pwky

DRAWING INDEX:

Sheet:	Title:	Revision #:	Date Issued:
FA-0	COVER SHEET, NOTES, CALCULATIONS FOR CLUBHOUSE		05.30.2024
FA-101	FIRE ALARM FLOOR PLAN - CLUBHOUSE		05.30.2024
FA-102	DEVICE MOUNTING & WIRING DETAILS		05.30.2024
FA-103	PANEL MOUNTING & WIRING, RISER DIAGRAM - CLUBHSE		05.30.2024
FA-201	FIRE ALARM FLOOR PLAN - APARTMENT LL, 1ST LEVEL		12.09.2024
FA-202	FIRE ALARM FLOOR PLAN - APARTMENT 2ND & 3RD LEVEL		12.09.2024
FA-203	FIRE ALARM FLOOR PLAN - APT. 4TH LVL, RISER		12.09.2024
FA-204	CALCULATIONS & PANEL MOUNTING - APARTMENT		01.17.2025

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri
04/28/2025



FIRE ALARM SEQUENCE OF OPERATIONS:
(Input/Output Matrix)

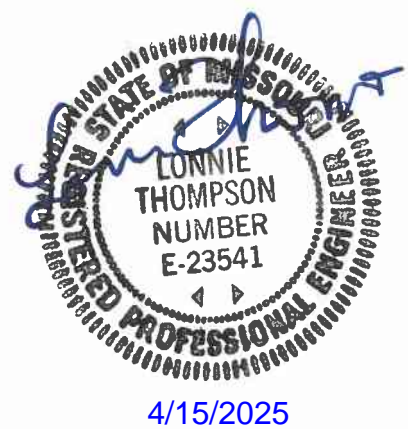
SYSTEM INPUTS	ALARM	SUPERVISORY	TROUBLE	REPORT TO FIRE ALARM CONTROL PANEL	TRANSMIT SIGNAL TO SUPERVISING STATION	ACTIVATE GENERAL FIRE ALARM BUILDING NOTIFICATION	SHUTDOWN AIR CURTAIN AT ELEVATOR	ACTIVATE AIR CURTAIN AT ELEVATOR	SOUND LOCAL NOTIFICATION APPLIANCE	ELEVATOR RECALL - SEND TO PRIMARY FLOOR	ELEVATOR RECALL - SEND TO ALTERNATE FLOOR	ELEVATOR STUNT TRIP ACTIVATION
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN	●	●	●	●	●	●	●	●	●	●	●	●
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT	●	●	●	●	●	●	●	●	●	●	●	●
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND	●	●	●	●	●	●	●	●	●	●	●	●
FIRE ALARM CONTROL PANEL LOSS OF POWER	●	●	●	●	●	●	●	●	●	●	●	●
FIRE ALARM CONTROL PANEL OTHER TROUBLE	●	●	●	●	●	●	●	●	●	●	●	●
SPRINKLER WATERFLOW ALARM ACTIVATION	●	●	●	●	●	●	●	●	●	●	●	●
MANUAL PULL STATION ACTIVATION	●	●	●	●	●	●	●	●	●	●	●	●
SMOKE DETECTOR ACTIVATION	●	●	●	●	●	●	●	●	●	●	●	●
SMOKE DETECTOR ACTIVATION - ELEVATOR LANDING PRIMARY FLR	●	●	●	●	●	●	●	●	●	●	●	●
SMOKE DETECTOR ACTIVATION - ELEVATOR LANDING OTHER FLOORS	●	●	●	●	●	●	●	●	●	●	●	●
HEAT DETECTOR - ELEVATOR SHAFT OR MACHINE ROOM	●	●	●	●	●	●	●	●	●	●	●	●
DUCT SMOKE DETECTOR ACTIVATION	●	●	●	●	●	●	●	●	●	●	●	●
SPRINKLER VALVE TAMPER SWITCH ACTIVATION	●	●	●	●	●	●	●	●	●	●	●	●
CARBON MONOXIDE (CO) DETECTOR (APT. GARAGES ONLY)	●	●	●	●	●	●	●	●	●	●	●	●

1. AC POWER LOSS REPORTED TO SUPERVISING STATION AFTER DELAY OF 30 MINUTES (PROGRAMMABLE).

FIRE ALARM SYMBOLS LEGEND	
SYMBL	DESCRIPTION
[FACP]	NOTIFIER NFS-320 FIRE ALARM PANEL MOUNT PANEL AS SHOWN AT 72" AFF TO TOP OF BOX BACK BOX: INCLUDED.
[ANN]	NOTIFIER FDU-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-102 BACK BOX: SINGLE GANG
[F]	NOTIFIER NBG-12LX ADDRESSABLE MANUAL PULL STATION SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT BACK BOX: SINGLE GANG 1.875" DEEP MIN
[2]	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
[SS]	SINGLE-STATION SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY BACK BOX:
[CO SS]	SINGLE-STATION COMBO CO/SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY BACK BOX:
[1]	NOTIFIER FST-951 HEAT DETECTOR, 135F MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
[CO]	SYSTEM SENSOR CO1224TR CARBON MONOXIDE DETECTOR INCLUDE FMM-101 FOR ADDRESSABLE INTERFACE BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
[FM]	NOTIFIER FMM-1 ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
[FM]	NOTIFIER FDM-1 DUAL ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
[FCM]	NOTIFIER FCM-1 ADDRESSABLE CONTROL MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
[FRM]	NOTIFIER FRM-1 ADDRESSABLE RELAY MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
[S]	SYSTEM SENSOR SWLED STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	SYSTEM SENSOR SCWLED STROBE, CEILING MOUNT, WHITE MOUNT IN DROP CEILING TILE OR BOTTOM OF CLNG TRUSS BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	SYSTEM SENSOR P2WLED HORN/STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	SYSTEM SENSOR HWL-LF LOW FREQ. HORN/STRB, WALL, WHT FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	SYSTEM SENSOR P2RK HORN/STROBE, WALL, OUTDOOR, RED MOUNT DIRECTLY ABOVE FDC AT 8'-10" A.F.G BACK BOX: PLASTIC BACKBOX INCLUDED WITH DEVICE

FIRE ALARM WIRE LEGEND	
TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWSTD, JACKETED CABLE FPLR
B	NOTIFICATION APPLIANCE CIRCUIT (NAC), CLASS B (2C) 14AWG SOLID, TWISTED, JACKETED CABLE: FPLP
P	AUX. POWER FOR ANNUNCIATOR (2C) 14AWG SOLID, TWISTED, JACKETED CABLE: FPLP
R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE: FPLP

DEVICE NUMBERING DETAILS	
N = NEW (DEFAULT) E = EXIST (NO ACTION) ER = EXIST TO REUSE ED = EXIST TO DELETE	TYPE OF SIGNAL CIRCUIT 'N' = NAC REMOTE POWER SUPPLY 'P' = FACP PANEL 'V' = VOICE EVAC (SPEAKER) PANEL NUMBER (IF ANY) CIRCUIT NUMBER IN PANEL
NO NOTATION = NEW	DEVICE NUMBER END OF LINE RESISTOR (LAST DEVICE ON CKT) CANDELA RATING
NOTIFICATION APPLIANCES	
[S] [S] [S] [S] [F]	MODULES
[CO] [1] [2] [2]	DETECTORS
ADDRESSABLE DEVICES	
N1L1D01	
NETWORK NODE NUMBER SLC or LOOP NUMBER DENOTES DEVICE TYPE 'M'=MODULE, 'D'=DETECTOR DEVICE ADDRESS NUMBER (1-159 DET, 1-159 MOD)	

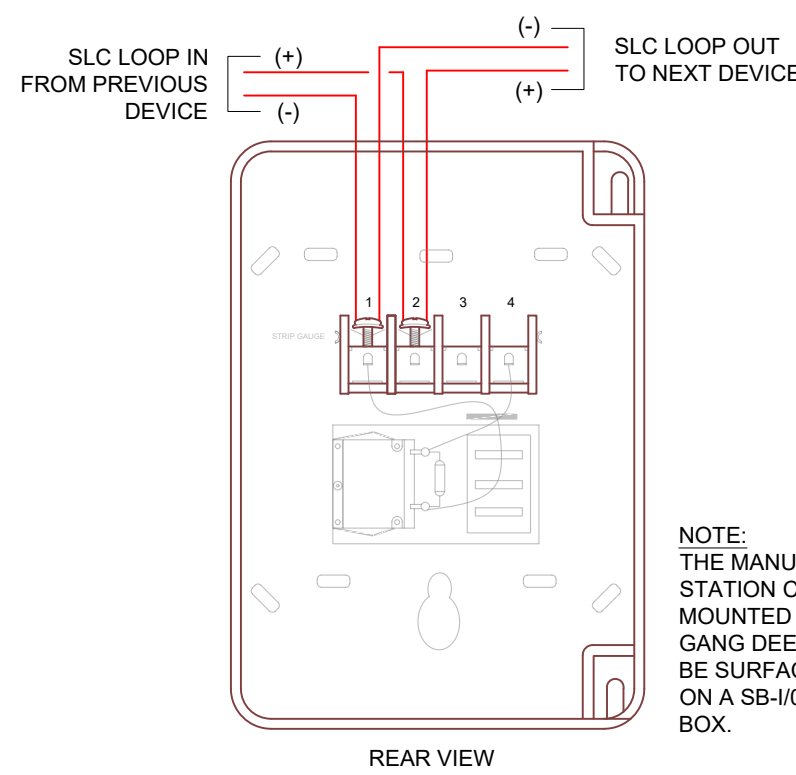


4/15/2025

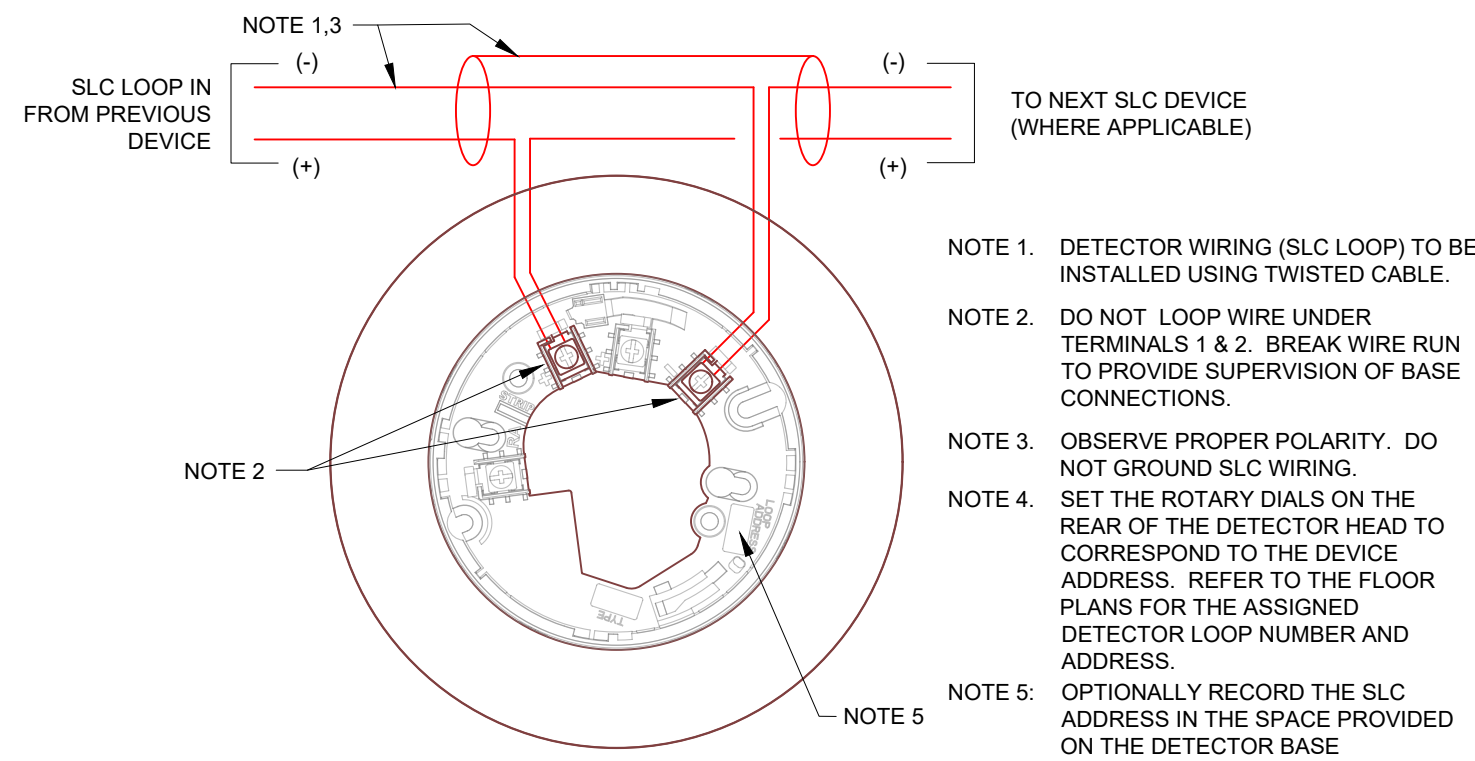
Residences at Blackwell - Building 1
2991 SE Shenandoah Pwky, Lee's Summit MO 64063
prepared for: Ridgeline Power Group
4700 Roe Parkway, Mission, KS 66205

SEAL:

DRAWN BY:	DATE:
D. LANE	05.28.2024
DESIGNED BY:	DATE:
PR	05.07.24
APPROVED BY:	DATE:
PROJECT NUMBER:	
3303 24050258	
SHEET TITLE:	
FIRE ALARM SYSTEM Cover Page & Notes Calculations - Clubhouse	
SHEET NUMBER:	
FA-0	
1 of 8	

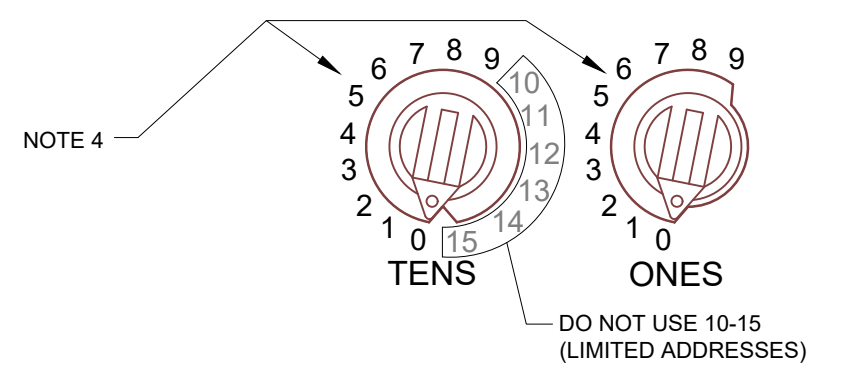


NBG-12LX MANUAL PULL STATION

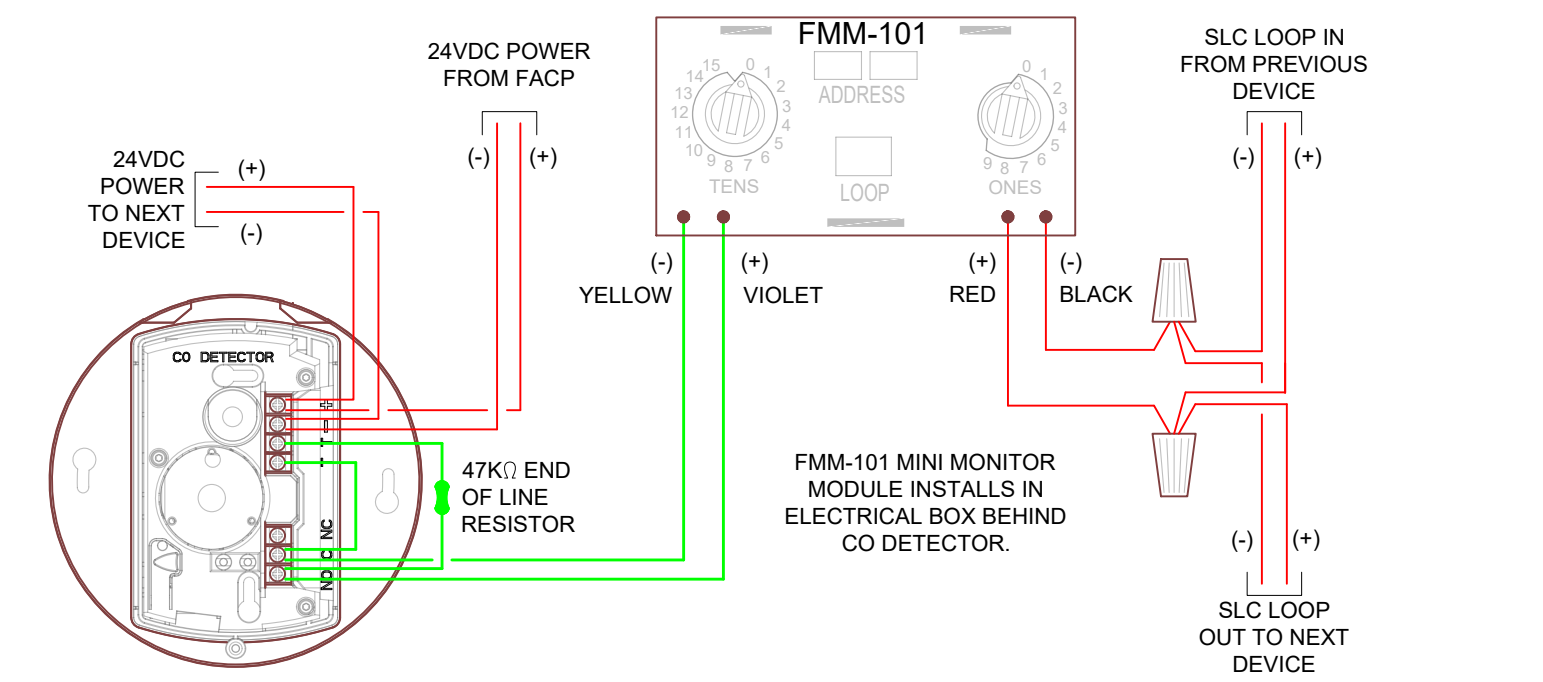


B300-6 DETECTOR BASE WIRING DETAIL

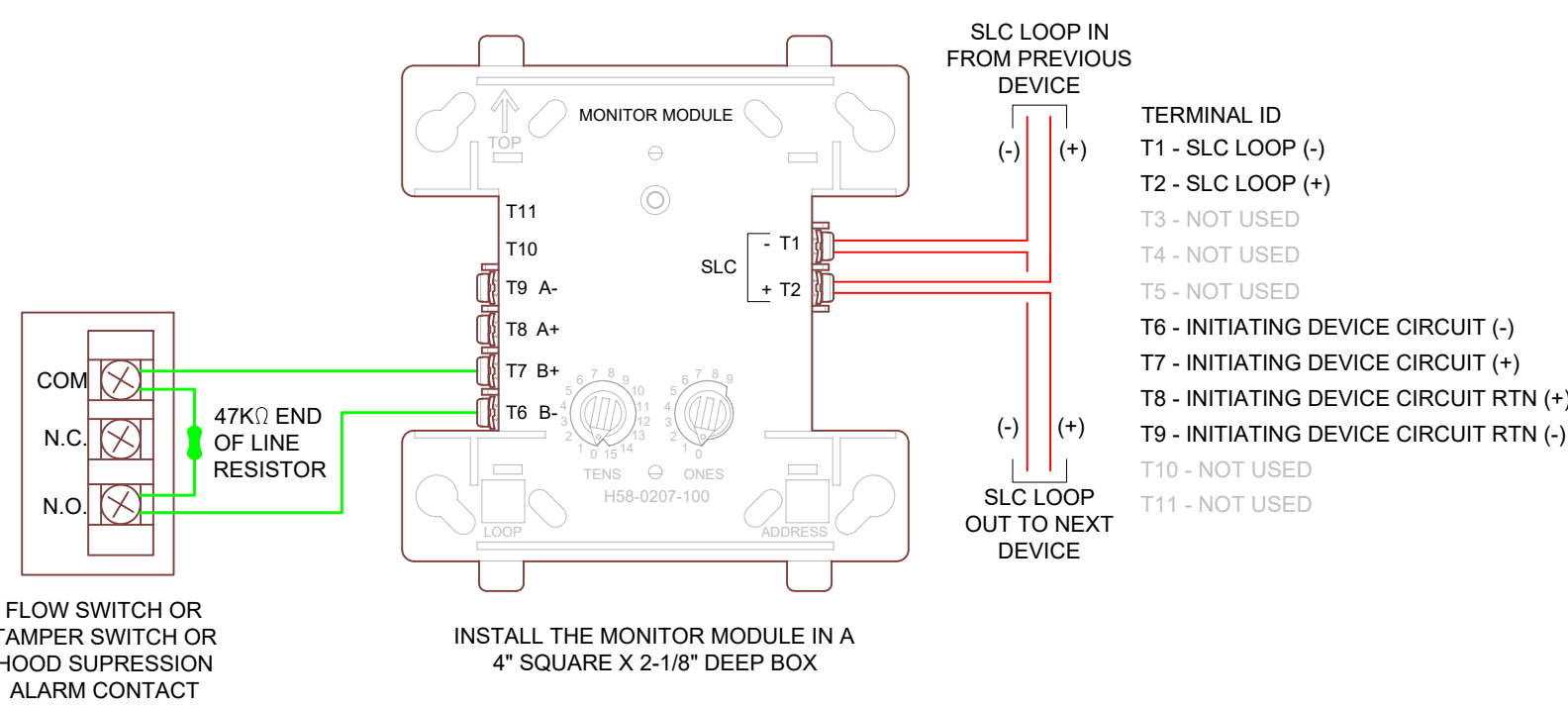
NOTE - LIMITED ADDRESSES:
EACH DEVICE CAN BE SET TO ONE OF 159 ADDRESSES (01-159), HOWEVER ONLY 99 DETECTOR AND 99 MODULE ADDRESSES ARE AVAILABLE IN THIS SYSTEM FOR A TOTAL OF 198 POINTS. CHANGE EACH DEVICE FROM FACTORY PRESET ADDRESS OF "00" USING A COMMON SCREWDRIVER TO ROTATE THE POINTER TO THE NUMBER DESIRED.



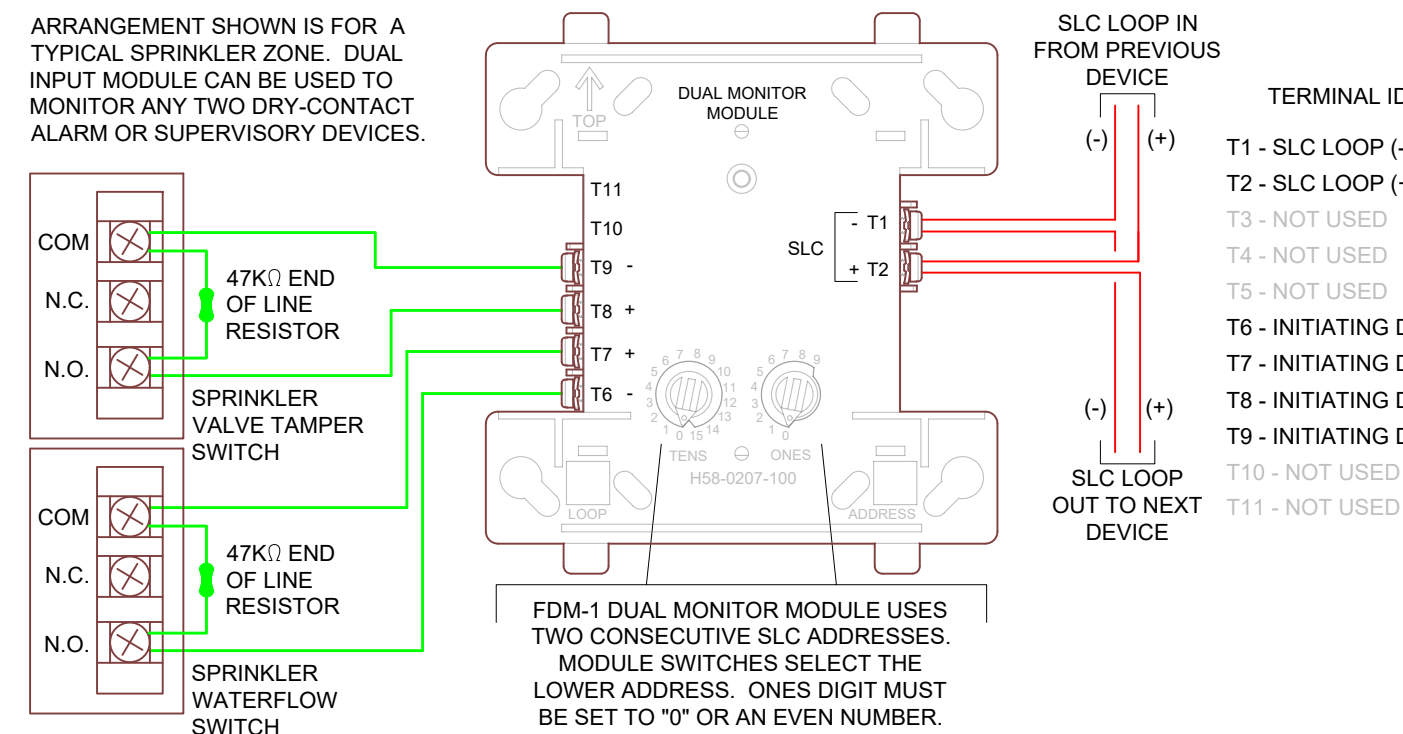
SETTING SLC ADDRESS
(ROTARY DIALS)



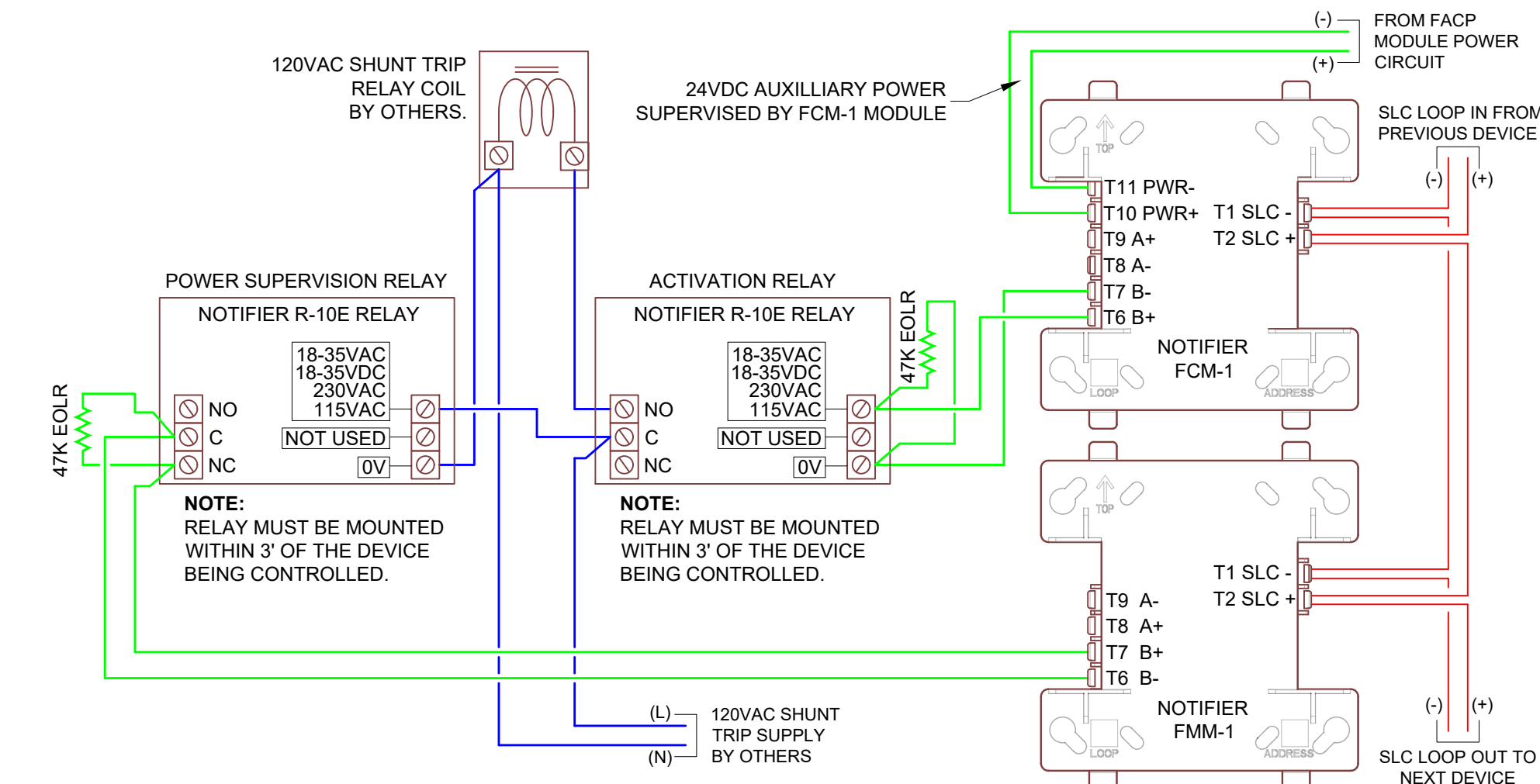
CO1224TR DETECTOR WITH FMM-101
MINI MONITOR MODULE



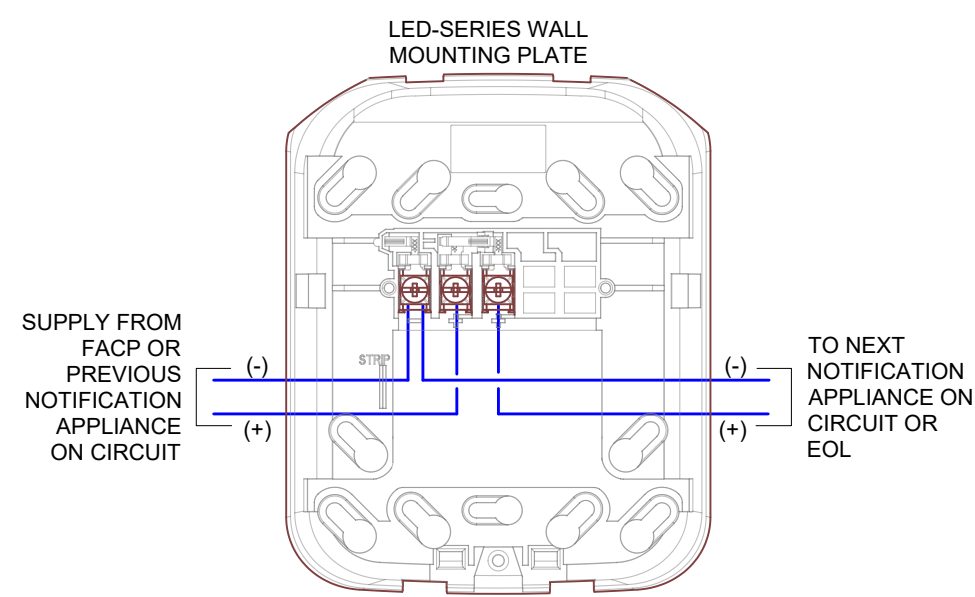
FMM-1 ADDRESSABLE MONITOR MODULE



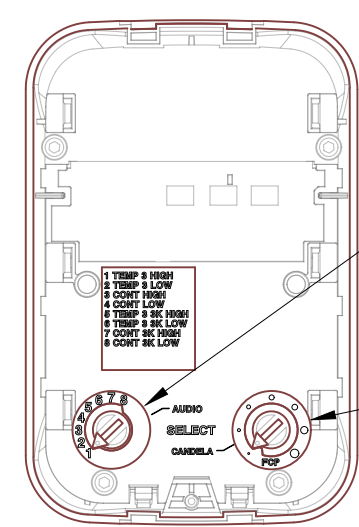
FDM-1 DUAL INPUT MONITOR MODULE - TYPICAL WIRING



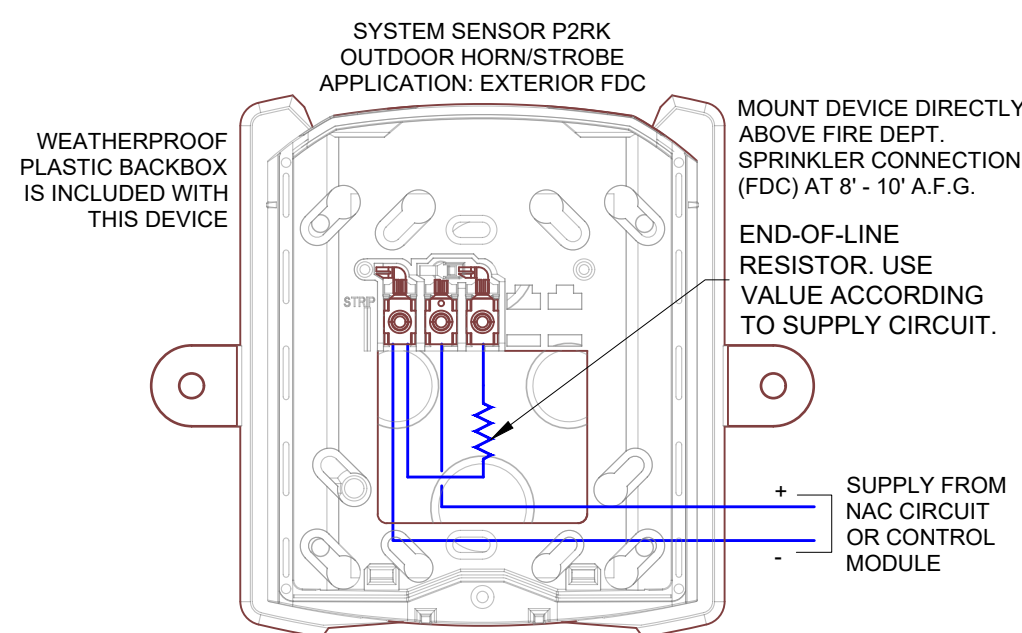
ELEVATOR SHUNT TRIP WIRING DETAIL



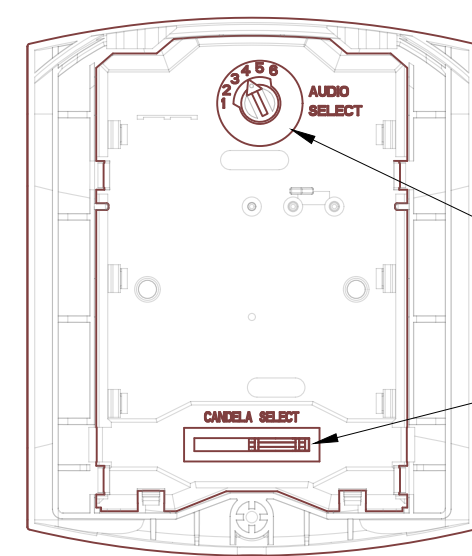
SYSTEM SENSOR LED-SERIES
HORN / STROBE & STROBE



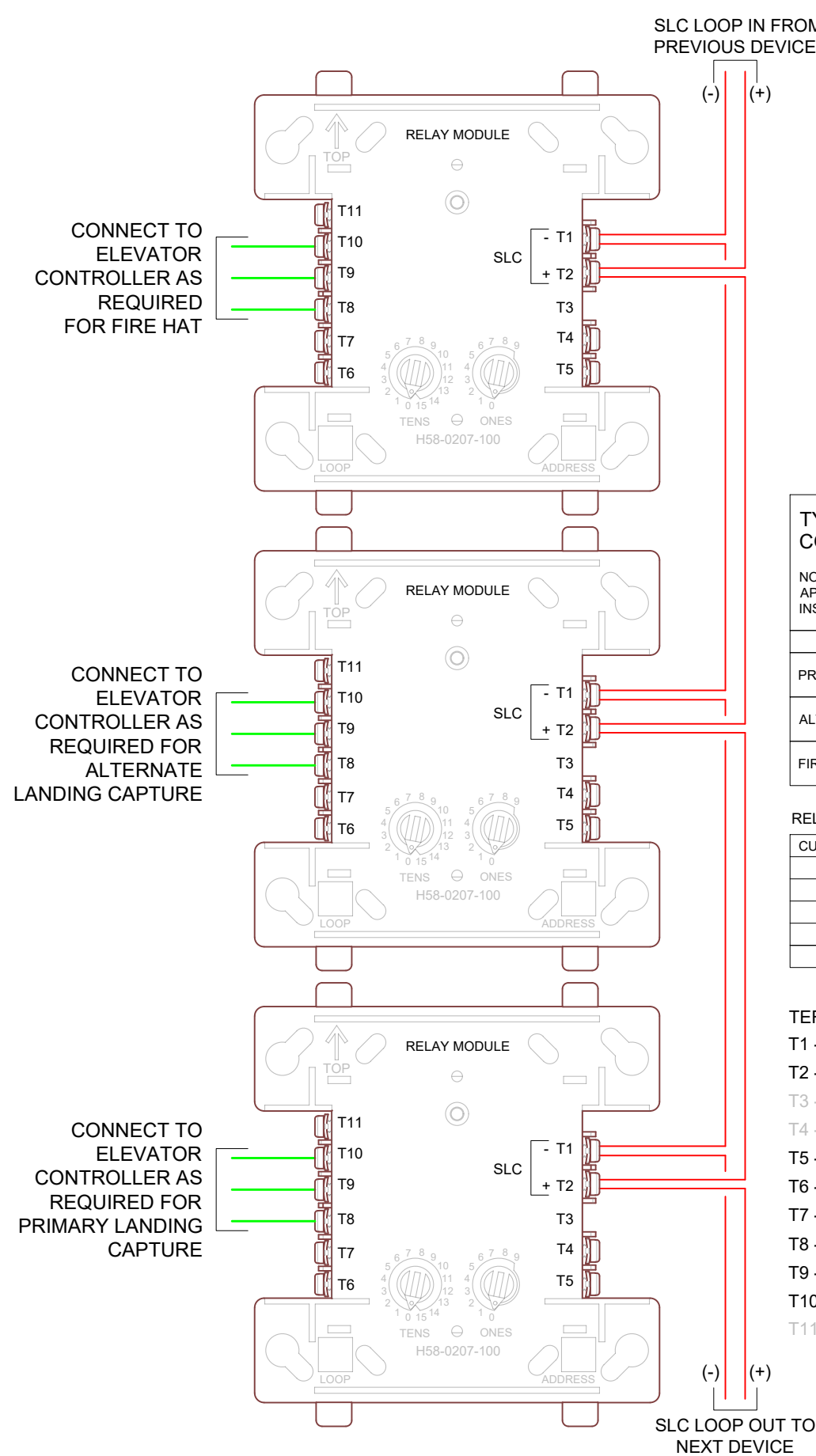
LED-SERIES HORN / STROBE
CANDELA & AUDIBLE SETTINGS



SYSTEM SENSOR P2RK
OUTDOOR HORN / STROBE



P2RK OUTDOOR HORN / STROBE
CANDELA & AUDIBLE SETTINGS

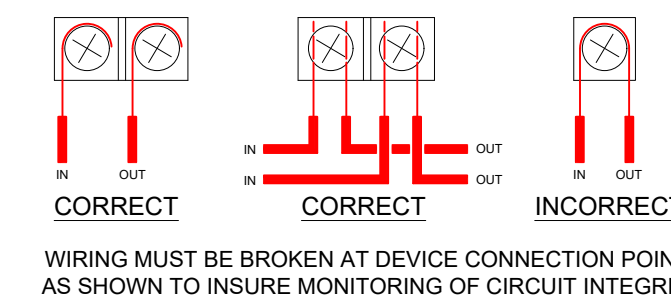


FRM-1 RELAY MODULE/ELEVATOR INTERFACES

TYPICAL ELEVATOR CONTROL MATRIX		DETECTOR LOCATION			
OUTPUT FUNCTION	ELEVATOR	MACHINE ROOM	ELEVATOR SHUTTLE (IF ANY)	DESIGNATED FLOOR	NON-DESIGNATED FLOOR
PRIMARY RECALL					X
ALTERNATE RECALL	X	X	X		
FIREMAN'S HAT INDICATOR	X	X			

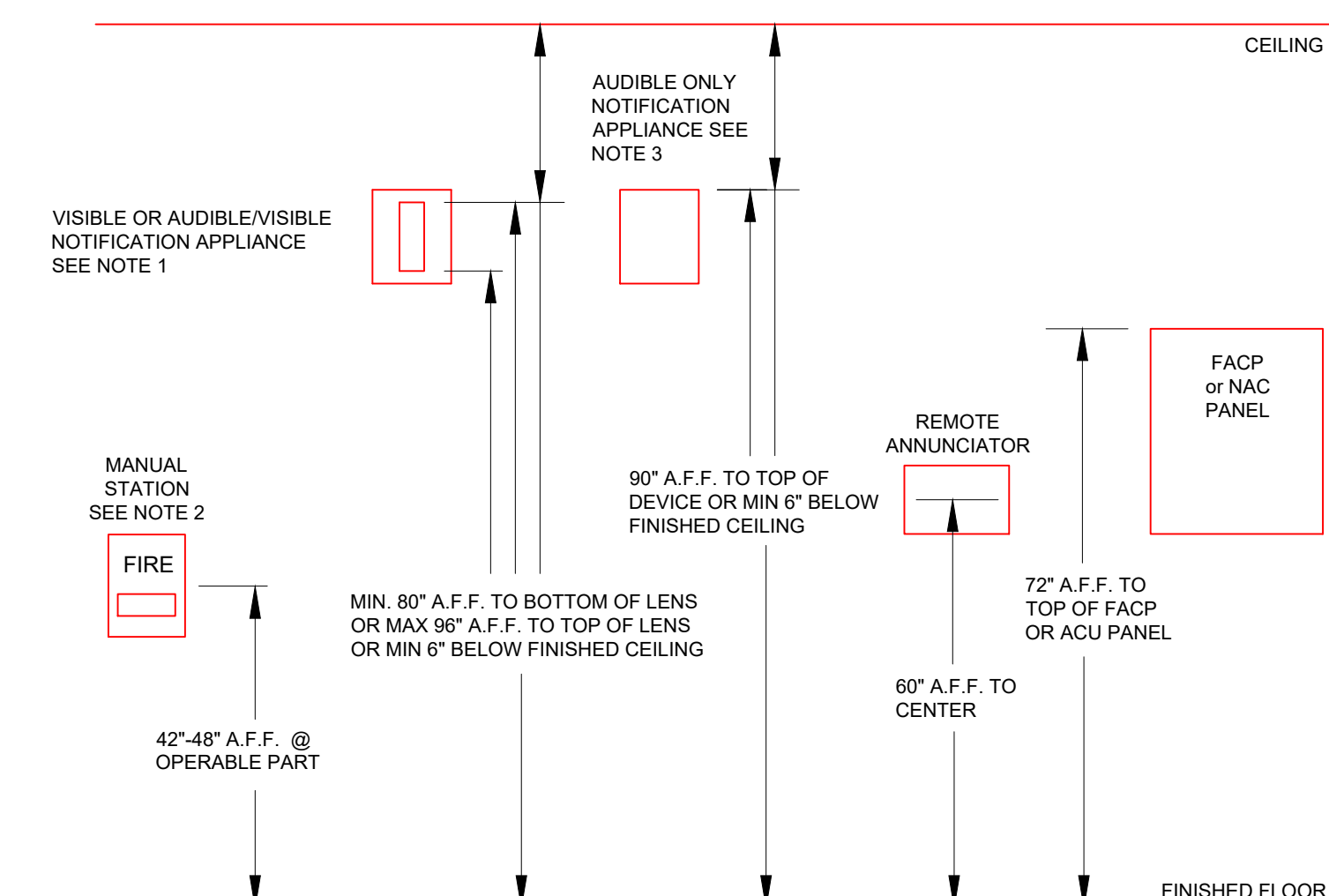
RELAY CONTACT RATINGS:		
CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION
3 A	30 VDC	Resistive
0.9 A	125 VDC	Resistive
2 A	25 VAC	Inductive (PF=35)
0.5 A	125 VAC	Inductive (PF=75)
0.3 A	125 VAC	Inductive (PF=35)

TERMINAL ID
T1 - SLC LOOP (-)
T2 - SLC LOOP (+)
T3 - NOT USED
T4 - NOT USED
T5 - NORMALLY OPEN 1
T6 - NORMALLY CLOSED 1
T7 - RELAY COMMON 1
T8 - NORMALLY OPEN 2
T9 - NORMALLY CLOSED 2
T10 - RELAY COMMON 2
T11 - NOT USED

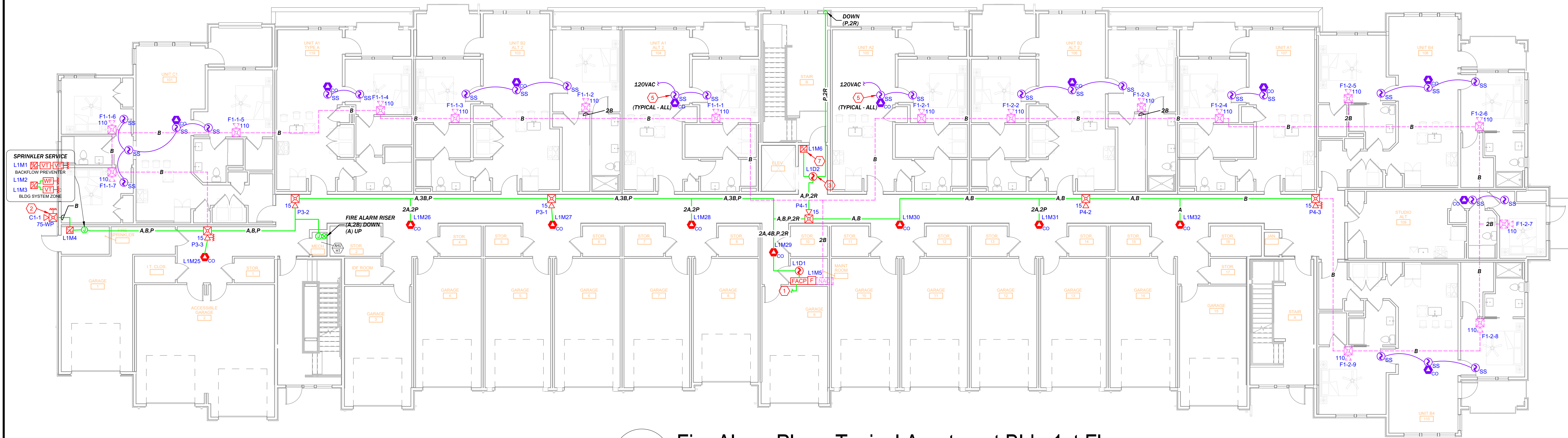


WIRING METHODS

- NOTES:
- VISIBLE OR AUDIBLE/VISIBLE APPLIANCES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" A.F.F. OR GREATER THAN 96" A.F.F. WHERE LOW CEILING HEIGHTS PREVENT ABOVE, MOUNT AT 6" BELOW CEILING TO TOP OF LENS. FOR CORRIDORS 20' OR LESS WIDE, MOUNT VISUAL APPLIANCES NO MORE THAN 15' FROM END OF CORRIDOR WITH NO MORE THAN 100' SEPARATION BETWEEN VISUAL APPLIANCES. MAXIMUM CORRIDOR LENGTH COVERED BY A SINGLE 15cd STROBE SHALL NOT EXCEED 30'.
 - MOUNT MANUAL STATIONS WITHIN 5' OF EXIT DOORWAY OPENING.
 - AUDIBLE ONLY APPLIANCES SHALL BE MOUNTED SO THAT THE TOP OF DEVICE IS NOT LESS THAN 90" A.F.F. IF CEILING PERMITS AND A MINIMUM 6" FROM CEILING.



INSTALLATION HEIGHTS FOR
WALL MOUNTED DEVICES



2 Fire Alarm Plan - Typical Apartment Bldg 1st Floor
SCALE: 3/32"=1'-0"
3" 0' 4' 10'-8"
SCALE: 3/32"=1'-0"

GENERAL NOTE - FUTURE CAPACITY
LOW FREQUENCY NOTIFICATION DEVICES IN UNITS AND PATHWAYS SHOWN IN **MAGENTA COLOR** ARE FOR FUTURE EXPANSION IN SLEEPING AREAS AS REQUIRED BY ICC A117.1. ELECTRICAL BOX ROUGH-IN AND WIRING ARE TO BE INCLUDED IN THE INSTALLATION. CONNECT CIRCUITS THROUGH AT FUTURE LOCATIONS AND BLANK OFF BOX. NAC CALCULATIONS INCLUDE FUTURE DEVICES.



1 Fire Alarm Plan - Typical Apartment Bldg Lower Level
SCALE: 3/32"=1'-0"
3" 0' 4' 10'-8"
SCALE: 3/32"=1'-0"

RTU & AHU SCHEDULE - Apartment Buildings
(As listed on contract drawing MP1.04)

AHU-H1	600 CFM
AHU-H2	600 CFM
AHU-H3	600 CFM
AHU-H4	600 CFM
AHU-H5	600 CFM
AHU-H6	600 CFM

None of the units in this building are over 2,000 CFM to require duct detectors and shutdown function from the fire alarm system per NFPA 72 & 90A. All are electric heat.



FIRE ALARM SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
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[P]	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
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FIRE ALARM WIRE LEGEND	
TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWSTD, JACKETED CABLE FPLR
B	NOTIFICATION APPLIANCE CIRCUIT (NAC), CLASS B (2C) 14AWG SOLID, TWISTED, JACKETED CABLE, FPLP
P	AUX. POWER FOR ANNUNCIATOR (2C) 14AWG SOLID, TWISTED, JACKETED CABLE, FPLP
R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE, FPLP

KEYED NOTES	
KEY #	NOTE TEXT
1	120VAC DEDICATED AC POWER FOR FIRE ALARM SYSTEM, TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
2	EXTERIOR NOTIFICATION DEVICE LOCATED DIRECTLY ABOVE FIRE DEPARTMENT SIAMSE CONNECTION (FDC) AT 10' A.F.G. DEVICE PROGRAMMED TO ACTIVATE ON SPRINKLER WATERFLOW IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0. SEE DETAIL ON FA-102 FOR SOUNDER SETTINGS.
3	DETECTOR PROGRAMMED FOR ELEVATOR CONTROL IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0.
4	NOT USED THIS SHEET
5	120VAC SINGLE-STATION SMOKE DETECTORS SHALL BE INTERCONNECTED WITHIN UNITS FOR ALARM SIGNAL AS REQUIRED BY NFPA 72 CHAPTER 29. PROVIDED AND INSTALLED BY OTHERS, SHOWN FOR REFERENCE ONLY.
6	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.
7	CONTROL RELAY FOR SMOKE CURTAIN AS CALLED OUT ON CONTRACT DRAWINGS. PROGRAM TO OPERATE AS SHOWN IN I/O MATRIX ON SHEET FA-0

DEVICE NUMBERING DETAILS	
N = NEW (DEFAULT) E = EXIST (NO ACTION) ER = EXIST TO REUSE ED = EXIST TO DELETE	TYPE OF SIGNAL CIRCUIT "N" = NAC REMOTE POWER SUPPLY "P" = FACP PANEL "V" = VOICE EVAC (SPEAKER) PANEL NUMBER (IF ANY) CIRCUIT NUMBER IN PANEL
NO NOTATION = NEW	DEVICE NUMBER END OF LINE RESISTOR (LAST DEVICE ON CKT) CANDELA RATING
NOTIFICATION APPLIANCES	
[S] [S] [S] [F] —MODULES—	NETWORK NODE NUMBER SLC or LOOP NUMBER DENOTES DEVICE TYPE "M"=MODULE, "D"=DETECTOR DEVICE ADDRESS NUMBER (1-159 DET, 1-159 MOD)
[CO] [SS] [SS] —DETECTORS—	ADDRESSABLE DEVICES

MIDWEST
ALARM
SERVICES

9745 Widmer, Lenexa, KS 66215
(913) 677-3711 FAX (913) 677-3712

REVISION DESCRIPTION

DATE

NO.

Residences at Blackwell - Building 1
2991 SE Shanhooah Pkwy, Lee's Summit MO 64063

prepared for: Ridgeline Power Group
4700 Roe Parkway, Mission, KS 66205

SEAL:

DRAWN BY: D.LANE
DESIGNED BY: PR
APPROVED BY:

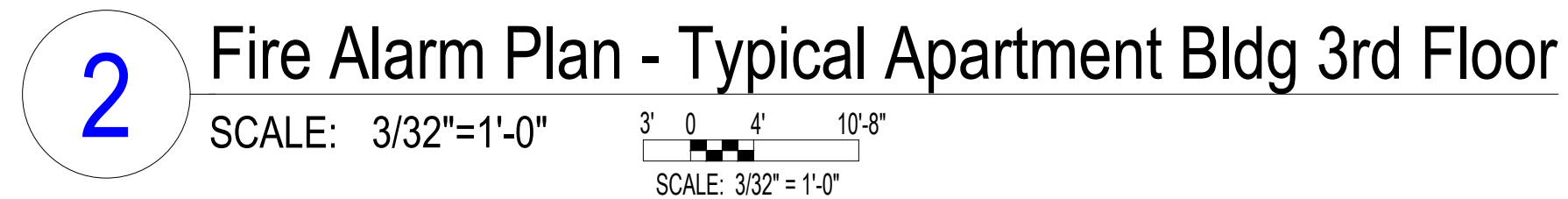
DATE: 05.28.2024
DATE: 05.07.24
DATE:

PROJECT NUMBER:
3303 24050258

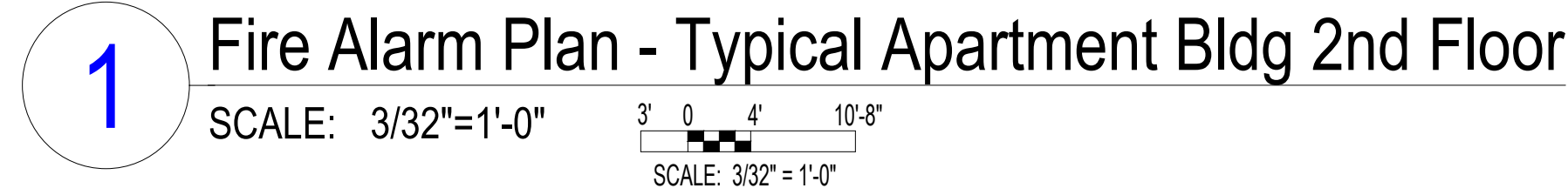
SHEET TITLE:
FIRE ALARM SYSTEM
Apartment Typ. Floor Plans
LL & 1st Floor


















SHEET NUMBER:
FA-201

5 of 5



LOW FREQUENCY NOTIFICATION DEVICES IN UNITS AND PATHWAYS SHOWN IN **MAJENTA COLOR** ARE FOR FUTURE EXPANSION IN SLEEPING AREAS AS REQUIRED BY ICC A117.1. ELECTRICAL BOX ROUGH-IN AND WIRING ARE TO BE INCLUDED IN THE INSTALLATION. CONNECT CIRCUITS THROUGH AT FUTURE LOCATIONS AND BLANK OFF BOX. NAC CALCULATIONS INCLUDE FUTURE DEVICES.



FIRE ALARM SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	NOTIFIER NFS-320 FIRE ALARM PANEL MOUNT AS SHOWN AT 72" AFF TO TOP OF BOX BACK BOX: INCLUDED.
	NOTIFIER FDU-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-102 BACK BOX: SINGLE GANG
	NOTIFIER FNG-12LX ADDRESSABLE MANUAL PULL STATION SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT BACK BOX: SINGLE GANG 1.875" DEEP MIN
	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
	SINGLE-STATION SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY BACK BOX:
	SINGLE-STATION COMBO CO/SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY BACK BOX:
	NOTIFIER FST-951 HEAT DETECTOR, 135F MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
	SYSTEM SENSOR 101/1224TR CARBON MONOXIDE DETECTOR INCLUDE FMM-101 FOR ADDRESSABLE INTERFACE BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
	NOTIFIER FMM-1 ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
	NOTIFIER FDM-1 DUAL ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
	NOTIFIER FCM-1 ADDRESSABLE CONTROL MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
	NOTIFIER FRM-1 ADDRESSABLE RELAY MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
	SYSTEM SENSOR SWLD STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG 1.875" DEEP MIN.
	SYSTEM SENSOR SCWLD STROBE, CEILING MOUNT, WHITE MOUNT IN DROP CEILING TILE OR BOTTOM OF CLNG TRUSS BACK BOX: SINGLE GANG 1.875" DEEP MIN.
	SYSTEM SENSOR P2WLD HORN/STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG 1.875" DEEP MIN.
	SYSTEM SENSOR HWL-LF LOW FREQ. HORN/STRB, WALL, WHT FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG 1.875" DEEP MIN.
	SYSTEM SENSOR P2RK HORN/STROBE, WALL, OUTDOOR, RED MOUNT DIRECTLY ABOVE FDC AT 8'-10" A.F.G BACK BOX: PLASTIC BACKBOX INCLUDED WITH DEVICE

FIRE ALARM WIRE LEGEND	
TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, JACKETED CABLE, FPLP
B	NOTIFICATION APPLIANCE CIRCUIT (NAC), CLASS B (2C) 14AWG SOLID, TWISTED, JACKETED CABLE, FPLP
P	AUX. POWER FOR ANNUNCIATOR (2C) 14AWG SOLID, TWISTED, JACKETED CABLE, FPLP
R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE, FPLP

KEYED NOTES		DWG SHEET #FA-202
KEY #	NOTE TEXT	
1	120VAC DEDICATED AC POWER FOR FIRE ALARM SYSTEM, TO BE PROVIDED BY ELECTRICAL CONTRACTOR.	
2	NOT USED THIS SHEET	
3	DETECTOR PROGRAMMED FOR ELEVATOR CONTROL IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0.	
4	NOT USED THIS SHEET	
5	120VAC SINGLE-STATION SMOKE DETECTORS SHALL BE INTERCONNECTED WITHIN UNITS FOR ALARM SIGNAL AS REQUIRED BY NFPA 72 CHAPTER 29, PROVIDED AND INSTALLED BY OTHERS, SHOWN FOR REFERENCE ONLY.	
6	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.	
7	CONTROL RELAY FOR SMOKE CURTAIN AS CALLED OUT ON CONTRACT DRAWINGS. PROGRAM TO OPERATE AS SHOWN IN I/O MATRIX ON SHEET FA-0	

DEVICE NUMBERING DETAILS

TYPE OF SIGNAL CIRCUIT
 'N' = NAC REMOTE POWER SUPPLY
 'P' = FACP PANEL
 'V' = VOICE EVAC (SPEAKER)
 PANEL NUMBER (IF ANY)
 CIRCUIT NUMBER IN PANEL

N2-1-01

NO NOTATION = NEW

N — DEVICE NUMBER
2 — END OF LINE RESISTOR
1 — PANEL NUMBER (IF ANY)
01 — CANDELA RATING

NOTIFICATION APPLIANCES

N1L1D01

NETWORK NODE NUMBER
 SLC or LOOP NUMBER
 DENOTES DEVICE TYPE
 "M"=MODULE, "D"=DETECTOR
 DEVICE ADDRESS NUMBER
 (1-159 DET, 1-159 MOD)

MODULES
 (Icons: square with X, square with X, square with X, square with F)

DETECTORS
 (Icons: triangle with A, circle with 1, circle with 2)

**MIDWEST
ALARM
SERVICES**

9745 Widmer, Lenexa, KS 66215
(913) 677-5771. FAX (913) 677-5772

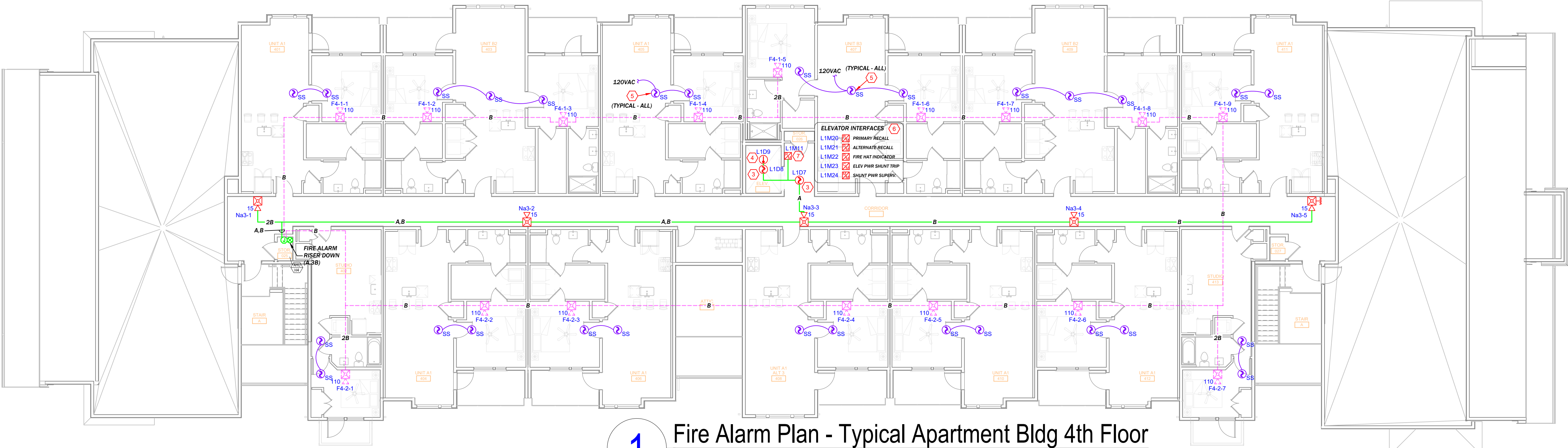
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Residences at Blackwell - Building 1
2991 SE Shennandoah Pkwy, Lee's Summit, MO 64063

prepared for: Ridgeline Power Group
4700 Roe Parkway, Mission, KS 66205

OWN BY:	DATE:
J. LANE	05.28.2024
IGNED BY:	DATE:
PR	05.07.24
ROVED BY:	DATE:
JECT NUMBER:	
803 24050258	
ET TITLE:	
FIRE ALARM SYSTEM	
partment 2nd Floor Plans	
2nd & 3rd Floor	
ET NUMBER:	
FA-202	





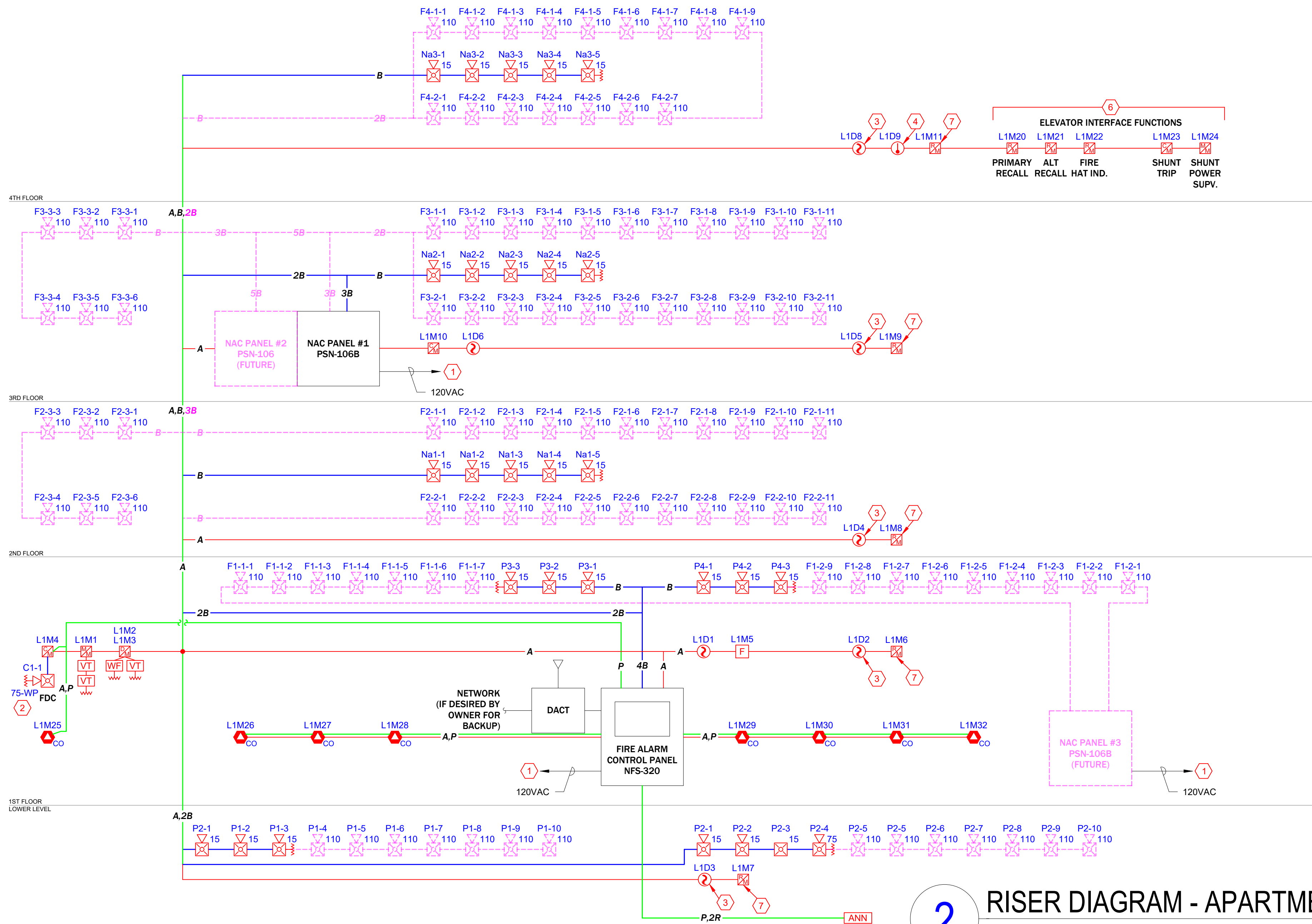
1 Fire Alarm Plan - Typical Apartment Bldg 4th Floor

SCALE: 3/32"=1'-0"

SCALE: 3/32"=1'-0"

GENERAL NOTE - FUTURE CAPACITY

LOW FREQUENCY NOTIFICATION DEVICES IN UNITS AND PATHWAYS SHOWN IN MAGENTA COLOR ARE FOR FUTURE EXPANSION IN SLEEPING AREAS AS REQUIRED BY ICC A117.1. ELECTRICAL BOX ROUGH-IN AND WIRING ARE TO BE INCLUDED IN THE INSTALLATION. CONNECT CIRCUITS THROUGH AT FUTURE LOCATIONS AND BLANK OFF BOX. NAC CALCULATIONS INCLUDE FUTURE DEVICES.



2 RISER DIAGRAM - APARTMENT BUILDINGS

SCALE: NONE

FIRE ALARM SYMBOLS LEGEND

SYMBOL	DESCRIPTION
[FACP]	NOTIFIER NFS-320 FIRE ALARM PANEL. MOUNT PANEL AS SHOWN AT 72" AFF TO TOP OF BOX. BACK BOX: INCLUDED.
[ANN]	NOTIFIER FDU-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-102. BACK BOX: SINGLE GANG.
[F]	NOTIFIER NBG-12LX ADDRESSABLE MANUAL PULL STATION. SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT. BACK BOX: SINGLE GANG 1.875" DEEP MIN.
[SS]	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO). MOUNT ON B300-6 BASE, AS INDICATED. BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP.
[H]	SINGLE-STATION SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY. BACK BOX: INCLUDED.
[HST]	NOTIFIER FST-951 HEAT DETECTOR, 135F. MOUNT ON B300-6 BASE, AS INDICATED. BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP.
[CO]	SYSTEM SENSOR CO1224TR CARBON MONOXIDE DETECTOR. INCLUDE FMM-101 FOR ADDRESSABLE INTERFACE. BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP.
[FMM]	NOTIFIER FMM-101 ADDRESSABLE MONITOR MODULE. MOUNT AS SHOWN ON PLANS. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[FDM]	NOTIFIER FDM-1 DUAL ADDRESSABLE MONITOR MODULE. MOUNT AS SHOWN ON PLANS. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[FCM]	NOTIFIER FCM-1 ADDRESSABLE CONTROL MODULE. MOUNT WITHIN 3' OF CONTROLLED DEVICE. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[FRM]	NOTIFIER FRM-1 ADDRESSABLE RELAY MODULE. MOUNT WITHIN 3' OF CONTROLLED DEVICE. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[SWL]	SYSTEM SENSOR SWLED STROBE, WALL MOUNT, WHITE. FORM MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[SCW]	SYSTEM SENSOR SCWLED STROBE, CEILING MOUNT, WHITE. MOUNT IN DROP CEILING TILE OR BOTTOM OF CLNG TRUSS. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[HWN]	SYSTEM SENSOR P2WLED HORN/STROBE, WALL MOUNT, WHITE. FORM MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[HWN]	SYSTEM SENSOR HWL-LF LOW FREQ. HORN/STROBE, WALL, WHT. FORM MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[P2R]	SYSTEM SENSOR P2RKH HORN/STROBE, WALL, OUTDOOR, RED. MOUNT DIRECTLY ABOVE FDC AT 8'-10" A.F.G. BACK BOX: PLASTIC BACKBOX INCLUDED WITH DEVICE.

FIRE ALARM WIRE LEGEND

TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, JACKETED CABLE FPLR
B	NOTIFICATION APPLIANCE CIRCUIT (NAC), CLASS B (2C) 14AWG SOLID, TWISTED, JACKETED CABLE, FPLP
P	AUX. POWER FOR ANNUNCIATOR (2C) 14AWG SOLID, TWISTED, JACKETED CABLE, FPLP
R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE, FPLP

KEYED NOTES

DWG SHEET # FA-203

KEY #	NOTE TEXT
1	120VAC DEDICATED AC POWER FOR FIRE ALARM SYSTEM, TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
2	EXTERIOR NOTIFICATION DEVICE LOCATED DIRECTLY ABOVE FIRE DEPARTMENT SIAMESE CONNECTION (FDC) AT 10' A.F.G. DEVICE PROGRAMMED TO ACTIVATE ON SPRINKLER WATERFLOW IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0. SEE DETAIL ON FA-102 FOR SOUNDER SETTINGS.
3	DETECTOR PROGRAMMED FOR ELEVATOR CONTROL IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0.
4	HEAT DETECTOR(S) TO BE LOCATED WITHIN 24" OF EACH SPRINKLER HEAD IN ELEVATOR HOISTWAY AND MACHINE ROOM. DEVICE PROGRAMMED FOR ELEVATOR POWER SHUNT TRIP IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0. SHUNT TRIP EQUIPMENT BY OTHERS.
5	120VAC SINGLE-STATION SMOKE DETECTORS SHALL BE INTERCONNECTED WITHIN UNITS FOR ALARM SIGNAL, AS REQUIRED BY NFPA 72 CHAPTER 29. PROVIDED AND INSTALLED BY OTHERS, SHOWN FOR REFERENCE ONLY.
6	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.
7	CONTROL RELAY FOR SMOKE CURTAIN AS CALLED OUT ON CONTRACT DRAWINGS. PROGRAM TO OPERATE AS SHOWN IN I/O MATRIX ON SHEET FA-0.

DEVICE NUMBERING DETAILS

N = NEW (DEFAULT) E = EXIST (NO ACTION) ER = EXIST TO REUSE ED = EXIST TO DELETE	NO NOTATION = NEW	TYPE OF SIGNAL CIRCUIT 'N' = NAC REMOTE POWER SUPPLY 'P' = VOICE EVAC (SPEAKER) 'V' = PANEL NUMBER (IF ANY) CIRCUIT NUMBER IN PANEL	DEVICE NUMBER END OF LINE RESISTOR (LAST DEVICE ON CKT) CANDELA RATING
NOTIFICATION APPLIANCES			
NETWORK NODE NUMBER SLC or LOOP NUMBER DENOTES DEVICE TYPE 'M'=MODULE, 'D'=DETECTOR DEVICE ADDRESS NUMBER (1-159 DET, 1-159 MOD)			
ADDRESSABLE DEVICES			



MIDWEST ALARM SERVICES

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REVISION DESCRIPTION

NO.	DATE	DESCRIPTION

DATE

NO.

Residences at Blackwell - Building 1

2991 SE Sherandoah Pkwy, Lee's Summit, MO 64063

prepared for: Ridgeline Power Group

4700 Roe Parkway, Mission, KS 66205

DRAWN BY: D. LANE

DESIGNED BY: PR

APPROVED BY: DATE: 05.28.2024

DATE: 05.07.24

PROJECT NUMBER: 3303 24050258

SHEET TITLE: FIRE ALARM SYSTEM Apartment Typ. Floor Plans 4th Floor

SHEET NUMBER: FA-203

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