

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	NOTIFICATION APPLIANCE CIRCUITS (NAC) & INITIATING DEVICE CIRCUITS (IDC) ARE SUPERSEDED. NO PARALLEL BRANCHING (TEE TAPPING) SHALL BE PERMITTED. NON-STYLE B & 7 SIGNALING LINE CIRCUITS (SLC) ALLOW PARALLEL BRANCHING (TEE-TAPPING) AT DEVICES AND RESIDUALS ONLY.
5.	ALL FIRE ALARM CONDUIT SHALL BE SIZED TO MEET OR EXCEED THE NEC MINIMUM REQUIREMENTS. 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 WAC'S, INCLUDING THROUGH ROOF CEILING, STUB-UPS THROUGH ENCLOSED WALLS, ETC.) 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 CITY ORDINANCES.
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.

#	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

## City of Lee's Summit, MO

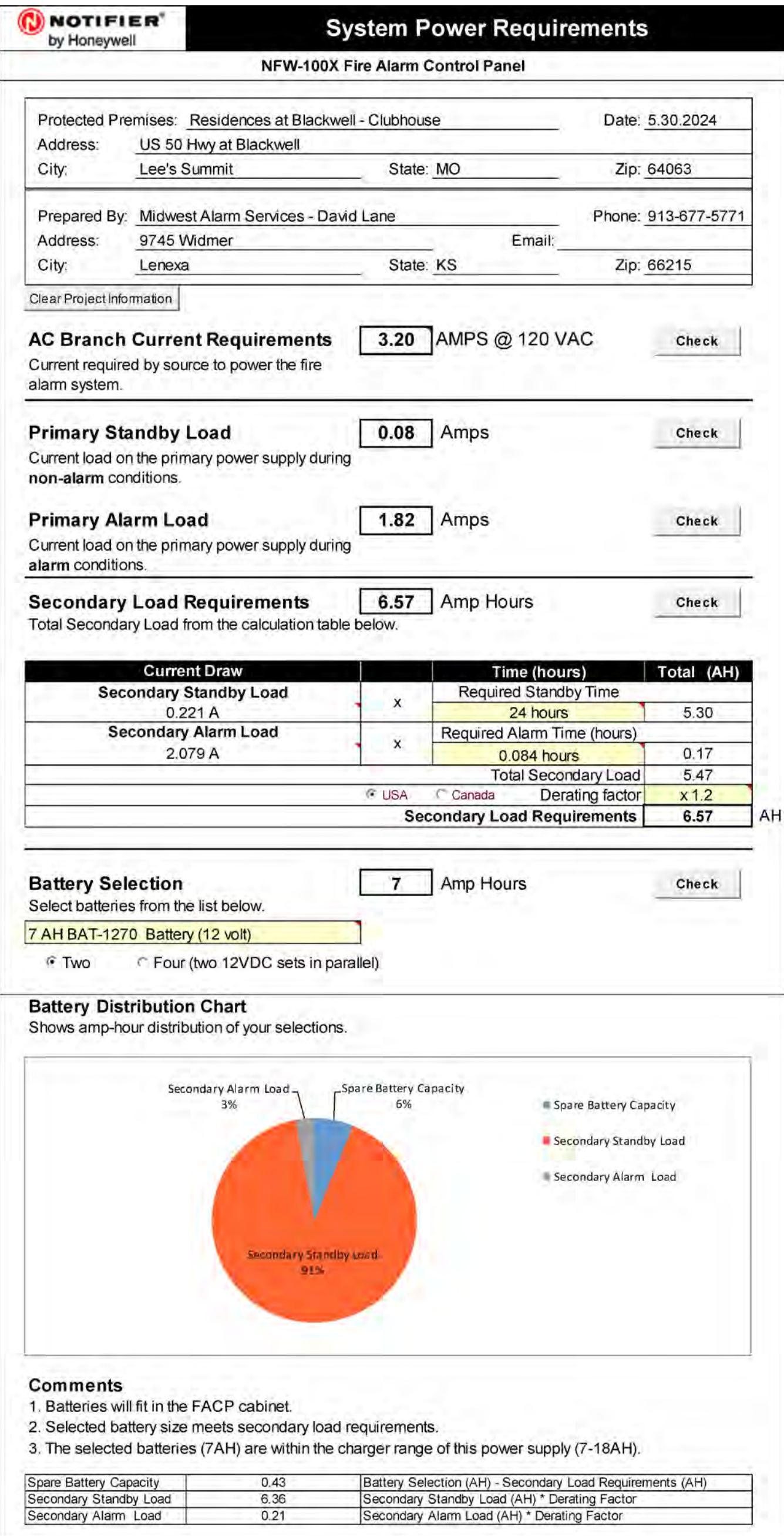
This project is a new apartment building complex including a clubhouse. All buildings are fully sprinklered per NFPA 13R. An addressable fire alarm system is being provided in each building with horn/strobe notification. Only the clubhouse is being submitted at this time.
















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.

SYSTEM INPUTS		AL	SL	TR	RE	AC	SH	EL	EL	EL
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		●			1					
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	●			●	●	●				

- | Sheet: | Title:  | Revision #: | Date Issued: |
|--------|---|-------------|--------------|
| FA-0   | COVER SHEET, NOTES, CALCULATIONS FOR CLUBHOUSE    |             | 05.30.24     |
| FA-101 | FIRE ALARM FLOOR PLAN - CLUBHOUSE                 |             | 05.30.24     |
| FA-102 | DEVICE MOUNTING & WIRING DETAILS                  |             | 05.30.24     |
| FA-103 | PANEL MOUNTING & WIRING, RISER DIAGRAM - CLUBHSE  |             | 05.30.24     |
| FA-201 | FIRE ALARM FLOOR PLAN - APARTMENT BSMT, RISER     |             | (future)     |
| FA-202 | FIRE ALARM FLOOR PLAN - APARTMENT 1ST & 2ND LEVEL |             | (future)     |
| FA-203 | FIRE ALARM FLOOR PLAN - APARTMENT 3RD & 4TH LEVEL |             | (future)     |
| FA-204 | PANEL MOUNTING & WIRING - APARTMENT               |             | (future)     |
| FA-205 | CALCULATIONS - APARTMENT                          |             | (future)     |

NOTIFICATION POWER SUMMARY - HORN-STROBE CIRCUITS - Clubhouse											
FACP	Ckt Design	Qty Dev	Alarm Load	Max. Load	Percent of Max	Circuit Length	wire type	Start Vols	e Drop	End Vols	
Upper Level	P1	15	0.520 A	2.50 A	20.80%	357 FT	14ga solid Cu	20.4	1.96	19.26	
Lower Level	P2	16	0.522 A	2.50 A	20.88%	375 FT	14ga solid Cu	20.4	2.30	19.20	
spare	P3	0	0.000 A	2.50 A	0.00%	0 FTS	14ga solid Cu	20.4	0.00	20.40	
exterior FDC	P4	1	0.176 A	2.50 A	7.04%	46 FT	14ga solid Cu	20.4	0.28	20.35	
	N/A	P5	0	0.000 A	0.00%	#DIV/0!	0 FTS	14ga solid Cu	20.4	0.00	20.40
	N/A	P6	0	0.000 A	0.00%	#DIV/0!	0 FTS	14ga solid Cu	20.4	0.00	20.40
TOTALS	32	1,218 A	3.0 A	40.60%							



FIRE ALARM SYMBOLS LEGEND	
SYMBL	DESCRIPTION
	NOTIFIER NF-W-100X FIRE ALARM PANEL MOUNT PANEL AS SHOWN AT 7" AFF TO TOP OF BOX BACK BOX: INCLUDED
	NOTIFIER N-ANN-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-x BACK BOX: SINGLE GANG
	NOTIFIER NBG-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:
	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
	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 SWLED STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR SWLED STROBE, CEILING MOUNT, WHITE MOUNT IN DROP CEILING TILE OR BOTTOM OF CLING TRUSS BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	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.
	SYSTEM SENSOR HWL-LF LOW FREQ. HORN, WALL MOUNT, WH FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 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
<b>A</b>	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, JACKETED CABLE FPLP
<b>B</b>	NOTIFICATION APPLIANCE CIRCUIT (NAC), CLASS B (2C) 14AWG SOLID, TWISTED, JACKETED CABLE. FPLP
<b>P</b>	AUX. POWER FOR ANNUNCIATOR (2C) 14AWG SOLID, TWISTED, JACKETED CABLE. FPLP
<b>R</b>	ANNUNCIATOR DATA CIRCUIT (ANN-BUS) (2C) 18AWG SOLID, TWISTED, JACKETED CABLE. FPLP

2A, 2B COMBINED FIRE ALARM WIRE PATHWAY

CABLE IDENTITY - LETTER

QUANTITY OF CABLE - NUMBER  
(NO NUMBER INDICATES QTY OF ONE)

THIS DRAWING DEPICTS GENERAL PATHWAYS USED TO SERIALLY CONNECT FIRE ALARM DEVICES CONSISTENT WITH ADDRESSING AND CALCULATIONS. IT DOES NOT SHOW CONDUIT OR RACEWAY LOCATION. EXACT ROUTING MAY BE ADJUSTED IN THE FIELD BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES.


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' = FACP PANEL  
 'V' = VOICE AREA (SPEAKER)  
 PANEL NUMBER (IF ANY)  
 CIRCUIT NUMBER IN PANEL

N2-1-01 → DEVICE NUMBER  
 N → END OF LINE RESISTOR (LAST DEVICE ON CKT)  
 30 → CANDELA RATING

## NOTIFICATION APPLIANCES

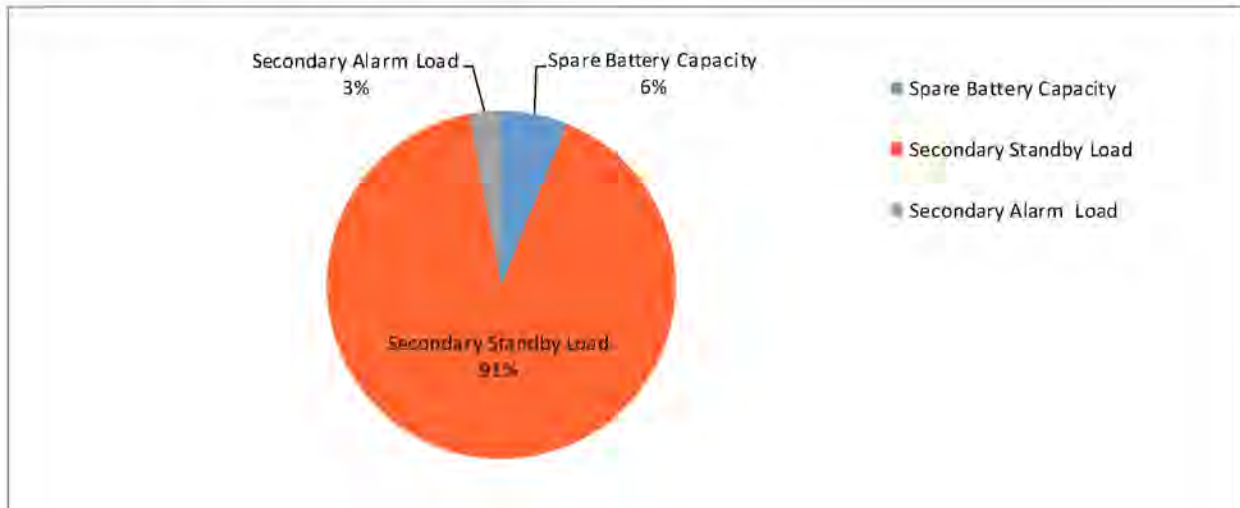

 — MODULES —


 — DETECTORS —

DENOTES DEVICE TYPE  
 "M"=MODULE, "D"=DETECTOR  
 DEVICE ADDRESS NUMBER  
 (1-159 DET, 1-159 MOD)

D01

## ADDRESSABLE DEVICES



- Comments**
1. Batteries will fit in the FACP cabinet.
  2. Selected battery size meets secondary load requirements.
  3. The selected batteries (7AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	0.43	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	6.36	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.21	Secondary Alarm Load (AH) * Derating Factor



KEYED NOTES		DWG SHEET # FA-101
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	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	RESIDENTIAL UNIT REQUIRED SINGLE-STATION SMOKE DETECTOR IS PROVIDED AND INSTALLED BY OTHERS.	
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.	

RTU & AHU SCHEDULE - Club House Building (As listed on contract drawing MP1.04)	
AHU-CL1	1,400 - 1,600 CFM
AHU-CL2	1,400 - 1,600 CFM
AHU-CL3	1,000 - 1,100 CFM
AHU-CL4	1,750 - 1,980 CFM
AHU-CL5	1,400 - 1,600 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.

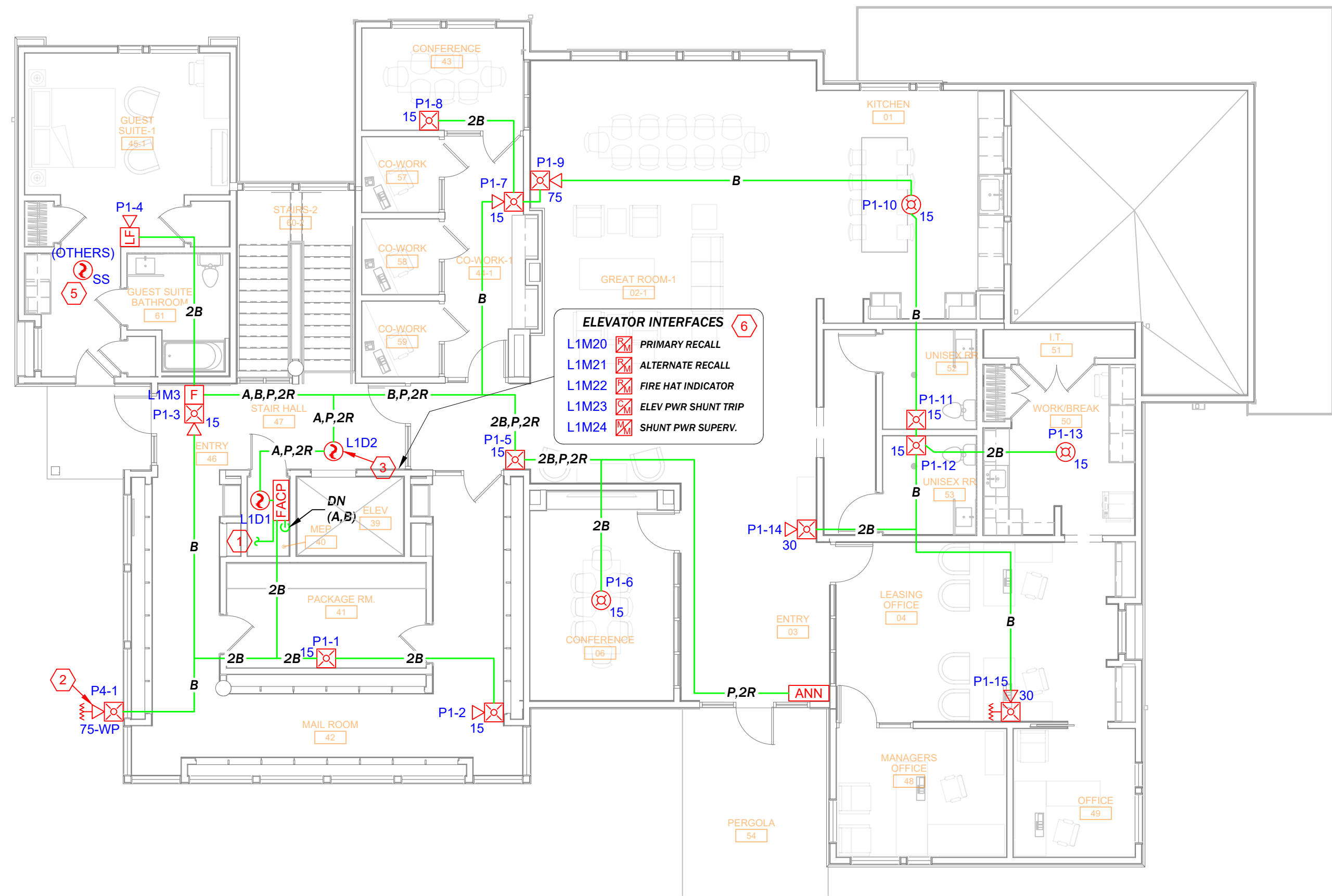
FIRE ALARM WIRE LEGEND	
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R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE. FPLP

WIRE TAG AND PATHWAY LEGEND	
	COMBINED FIRE ALARM WIRE PATHWAY
	CABLE IDENTITY - LETTER
	QUANTITY OF CABLE - NUMBER (NO NUMBER INDICATES QTY OF ONE)

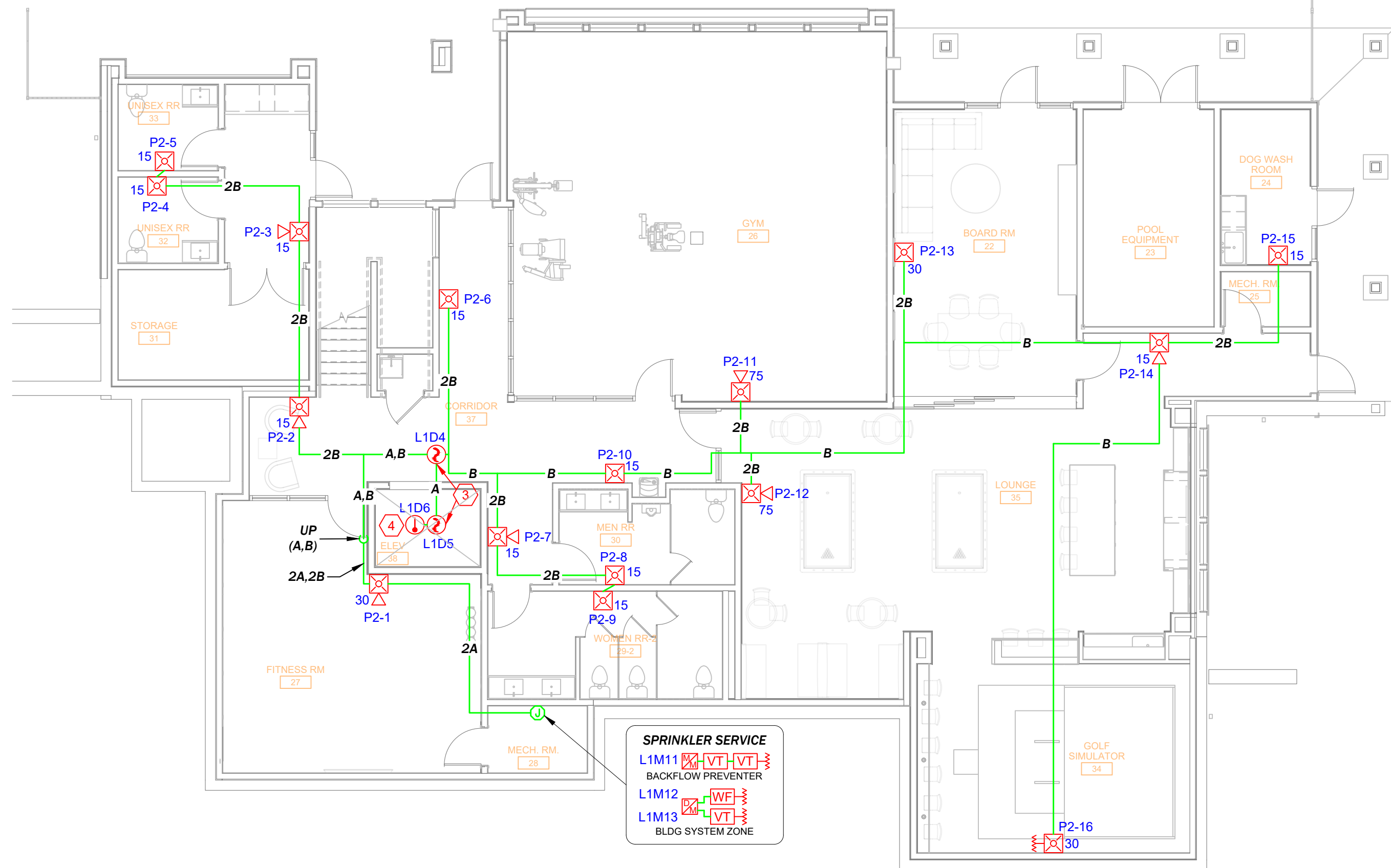
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DEVICE NUMBERING DETAILS	
N = NEW (DEFAULT) E = EXIST (NO ACTION) ER = EXIST TO REUSE ED = EXIST TO DELETE NO NOTATION = NEW	TYPE OF SIGNAL CIRCUIT "N" = NAC REMOTE POWER SUPPLY "P" = FACP PANEL "V" = VOICE EVAC (SPEAKER) CIRCUIT NUMBER (IF ANY) CIRCUIT NUMBER IN PANEL
	DEVICE NUMBER END OF LINE RESISTOR (LAST DEVICE ON CKT) CANDELA RATING
	NOTIFICATION APPLIANCES
	ADDRESSABLE DEVICES

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**2** Fire Alarm Plan - Club House UL  
SCALE: 1/8"=1'-0" 2' 0' 4' 8'  
SCALE: 1/8" = 1'-0"



**1** Fire Alarm Plan - Club House LL  
SCALE: 1/8"=1'-0" 2' 0' 4' 8'  
SCALE: 1/8" = 1'-0"



**MIDWEST**  
**ALARM**  
**SERVICES**

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

REVISION DESCRIPTION

DATE

NO.

Residences at Blackwell  
2840 SE Blue Parkway, 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:

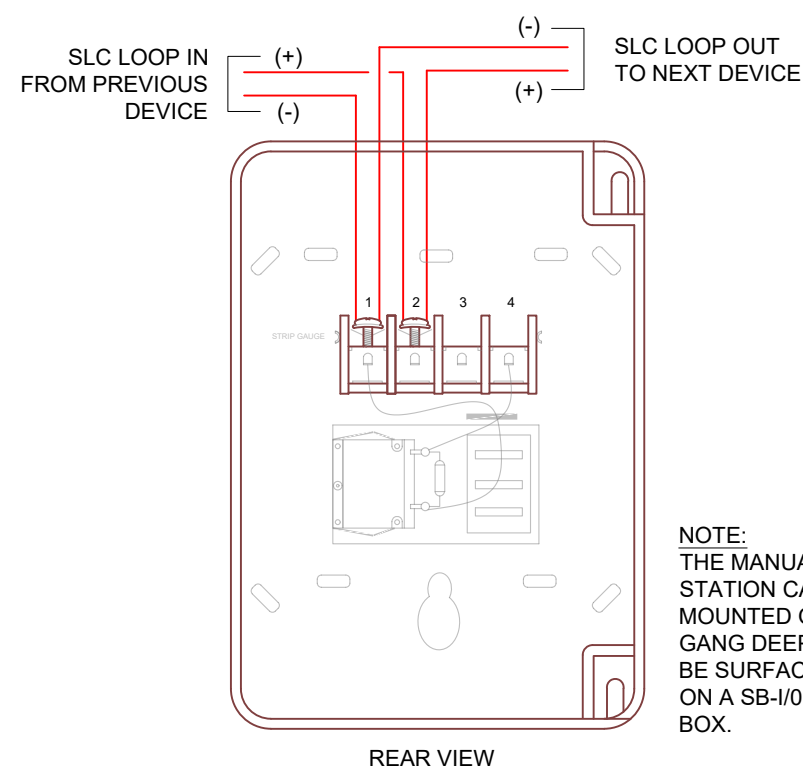
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DATE:

PROJECT NUMBER:  
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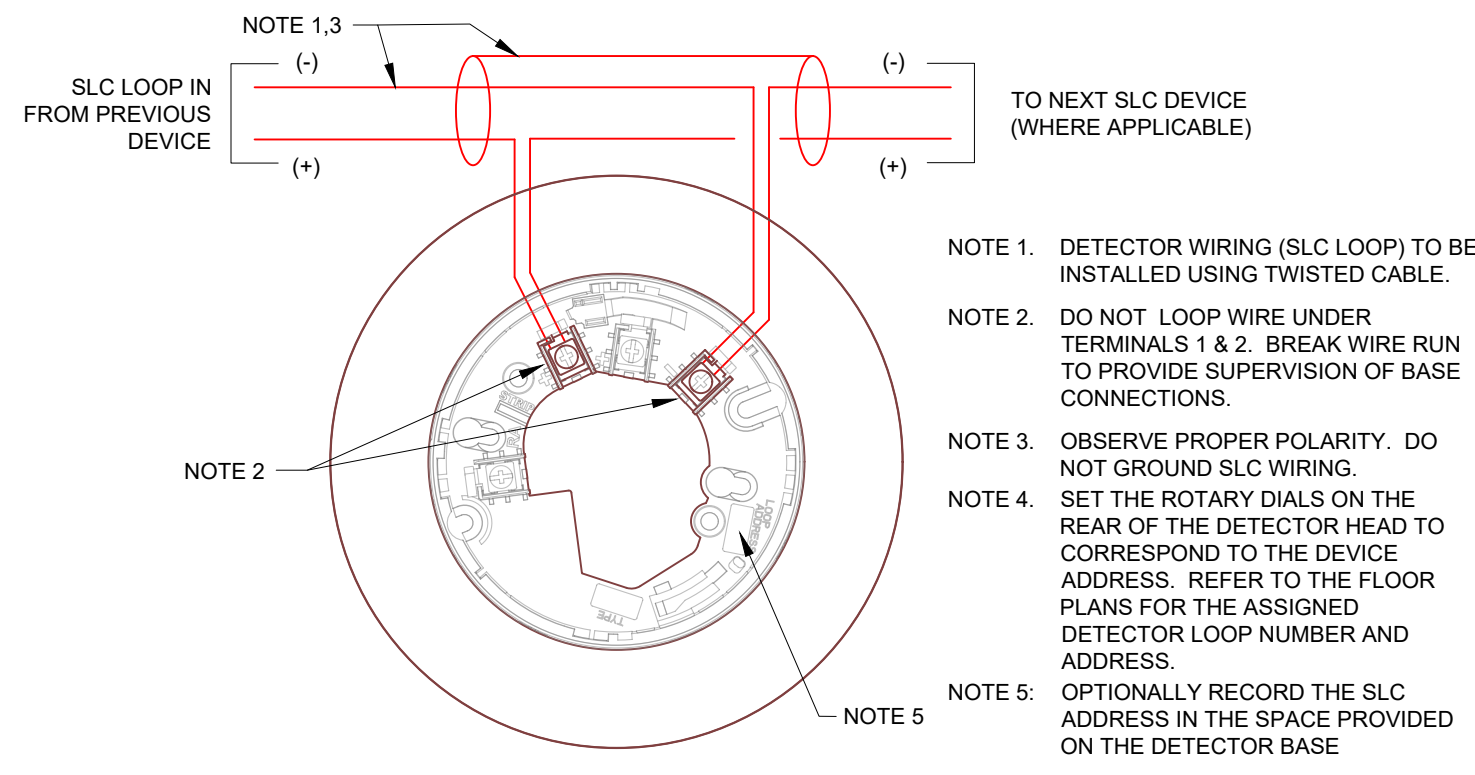
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FIRE ALARM SYSTEM  
Club House  
Floor Plan Layouts

SHEET NUMBER:  
FA-101  
2 of 2



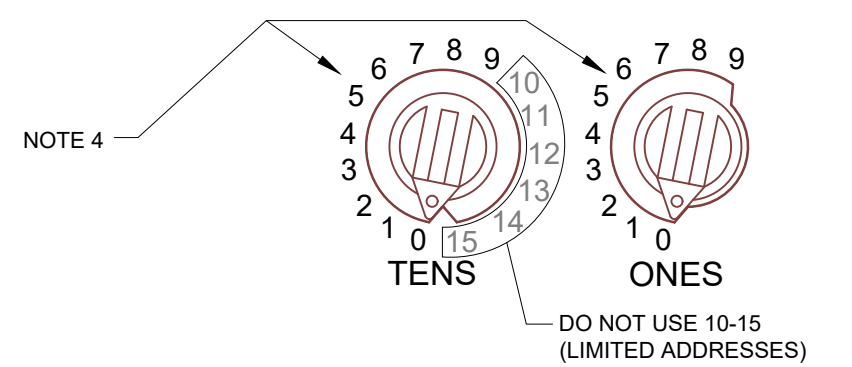


NBG-12LX MANUAL PULL STATION

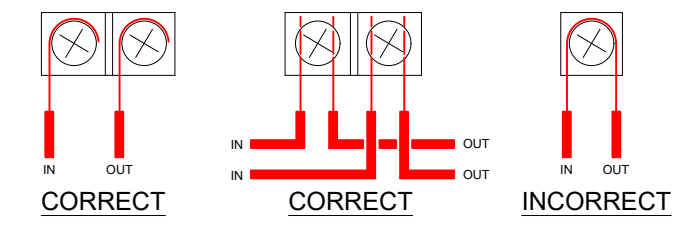


B300-6 DETECTOR BASE WIRING DETAIL

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.

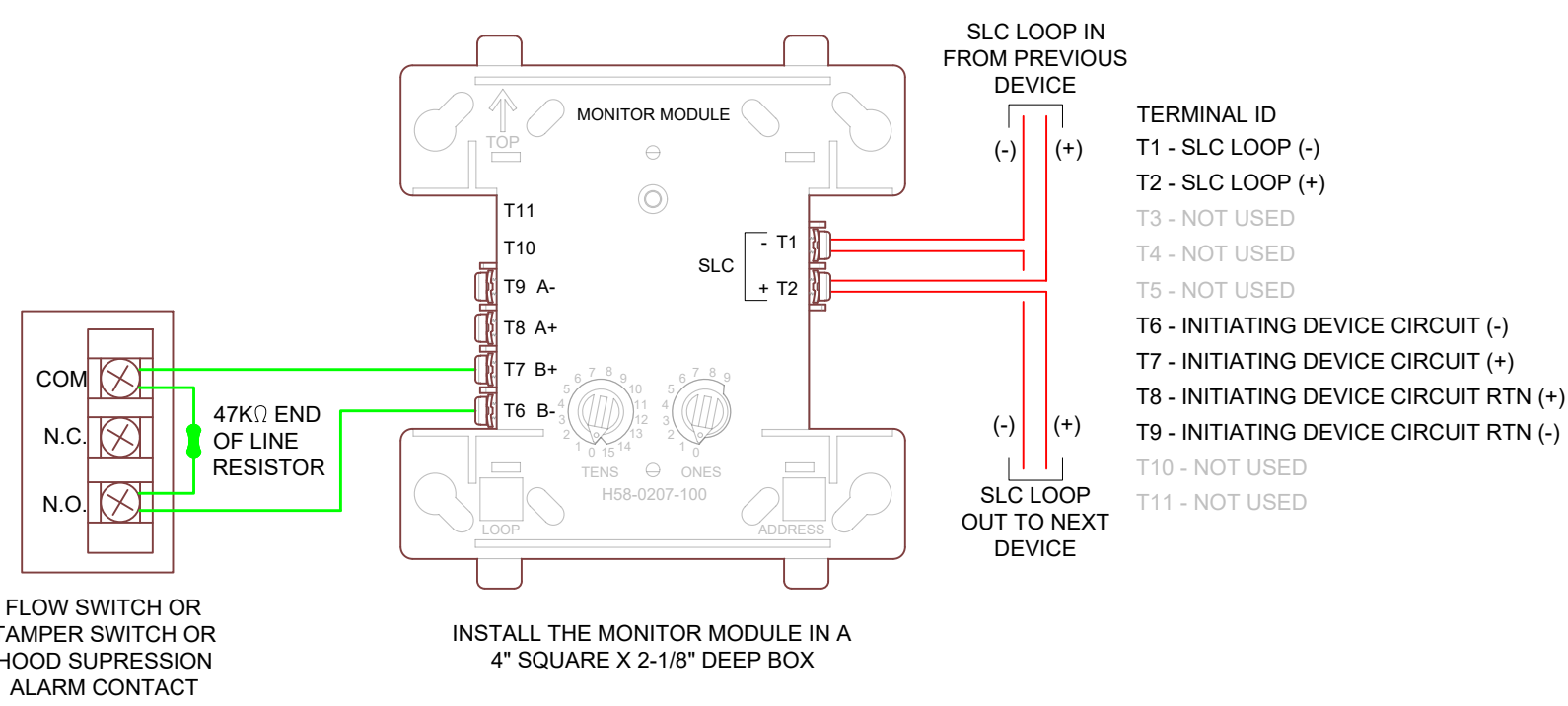


SETTING SLC ADDRESS  
(ROTARY DIALS)

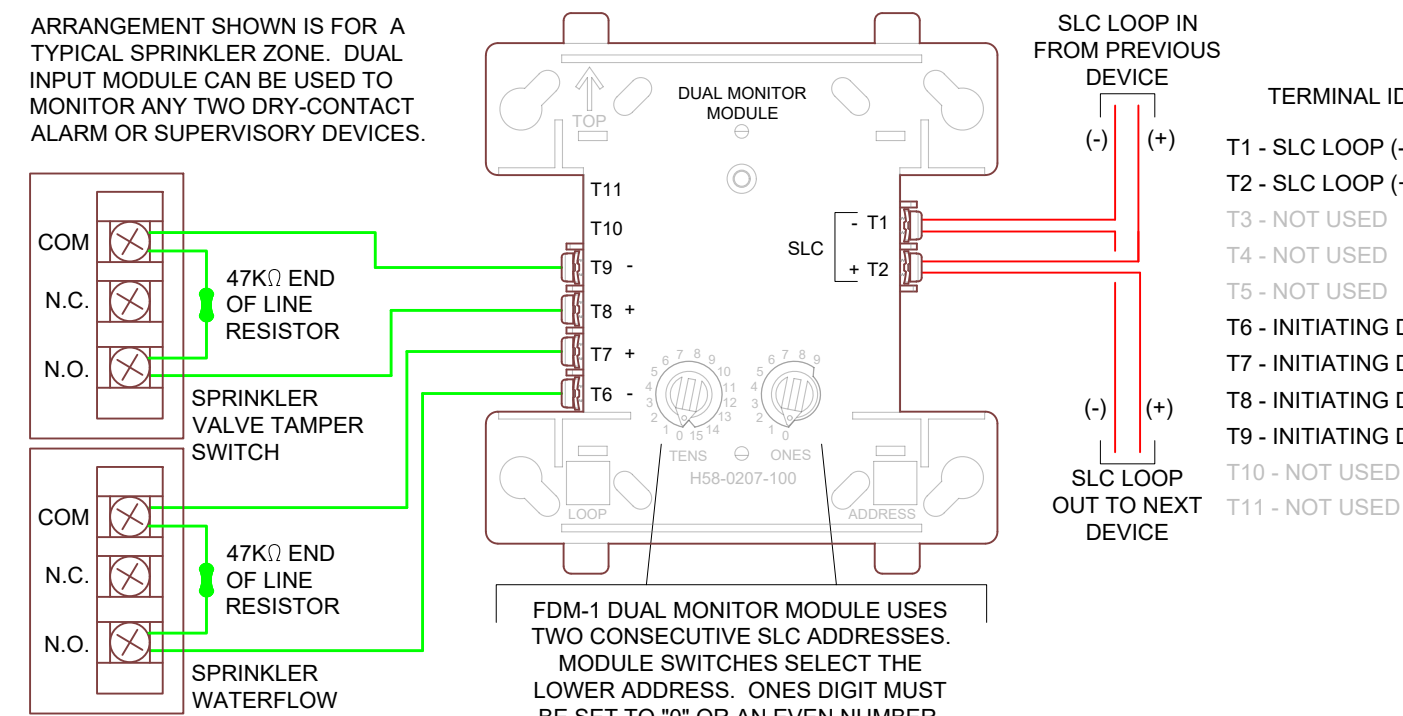


WIRING MUST BE BROKEN AT DEVICE CONNECTION POINTS AS SHOWN TO INSURE MONITORING OF CIRCUIT INTEGRITY.

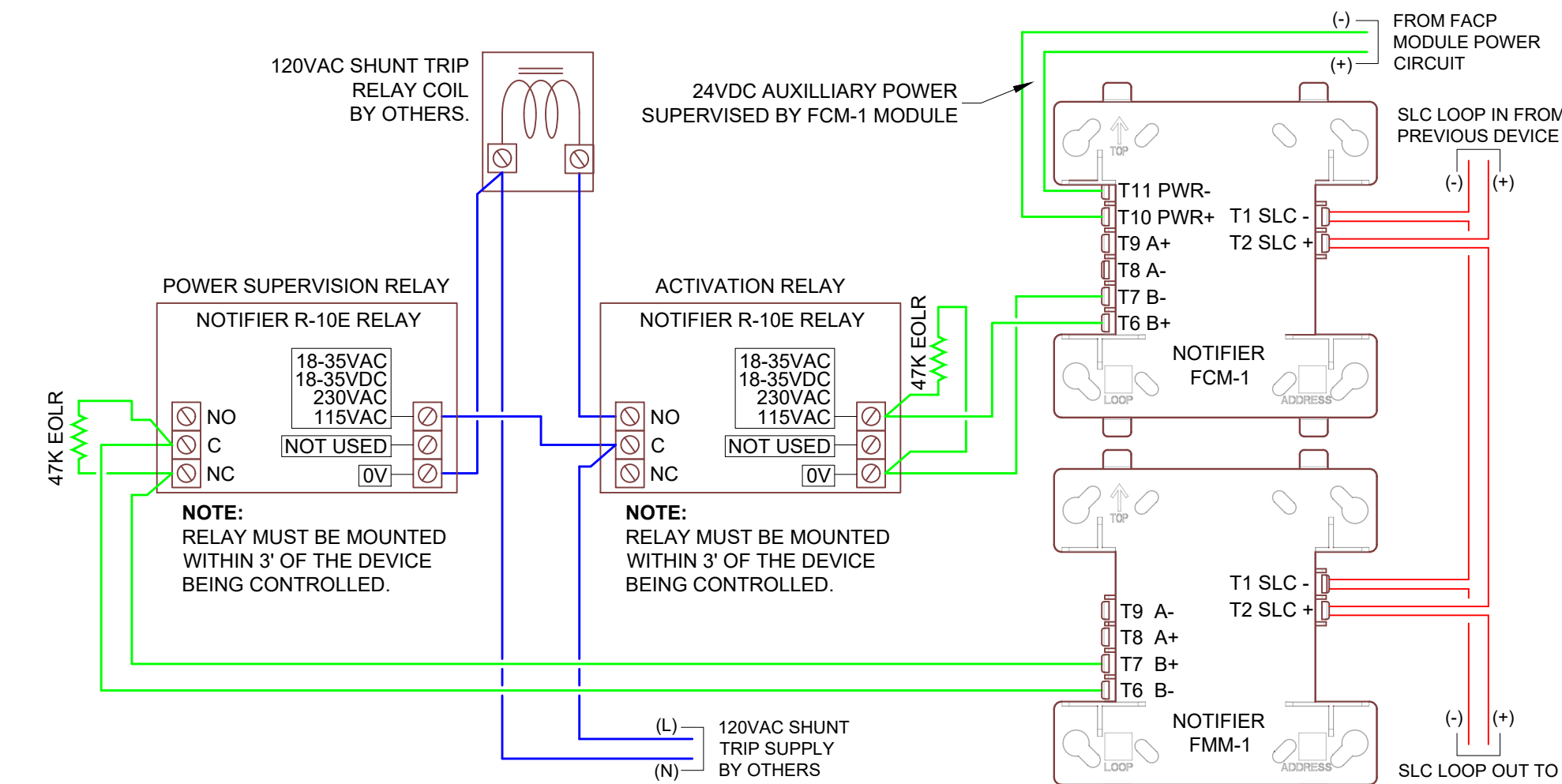
WIRING METHODS



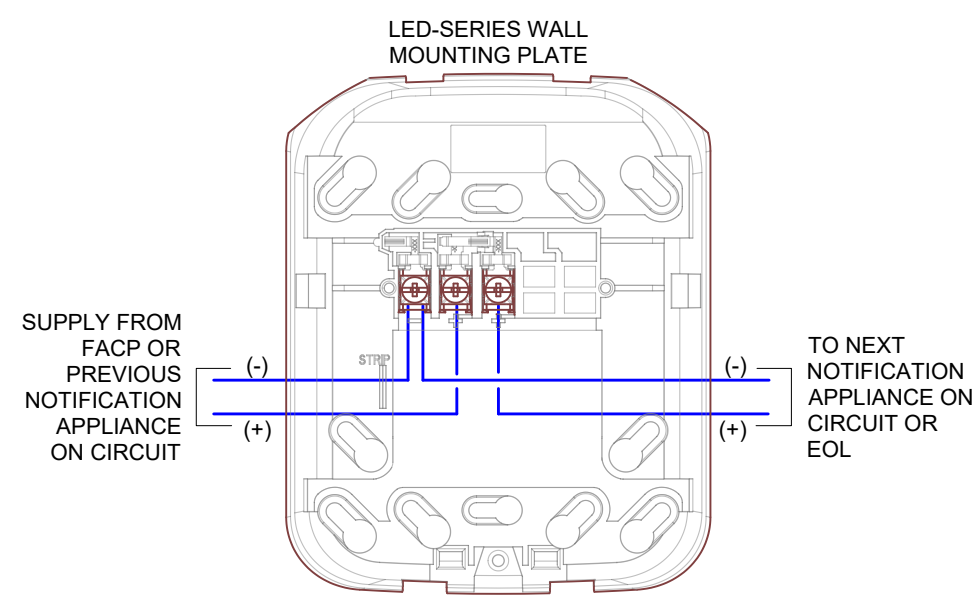
FMM-1 ADDRESSABLE MONITOR MODULE



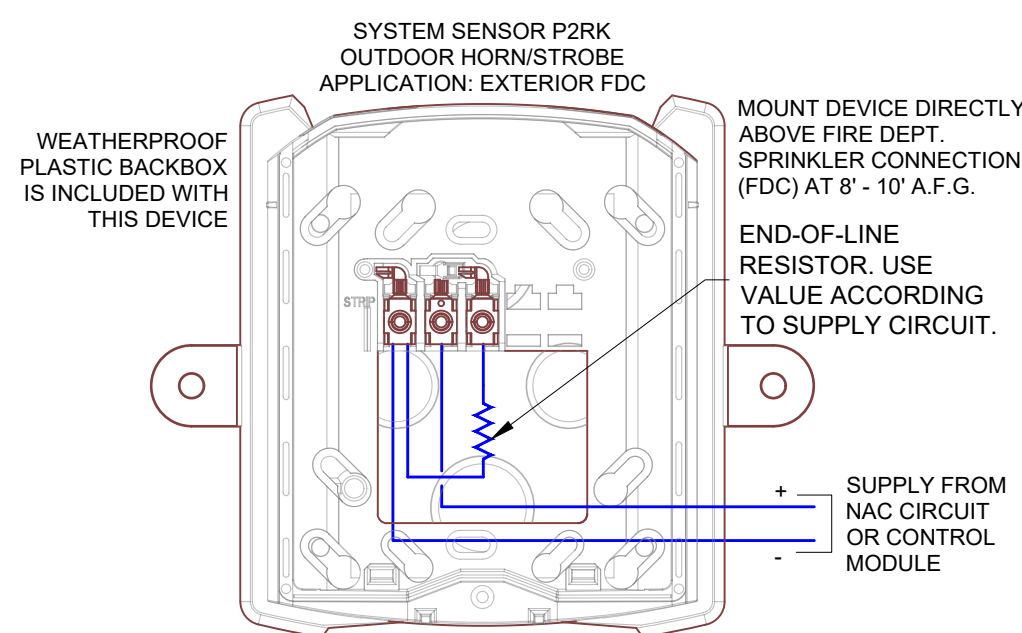
FDM-1 DUAL INPUT MONITOR MODULE - TYPICAL WIRING



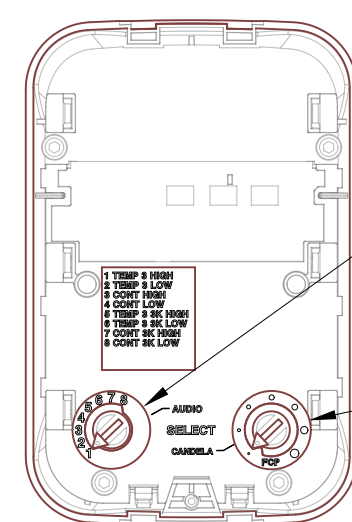
ELEVATOR SHUNT TRIP WIRING DETAIL



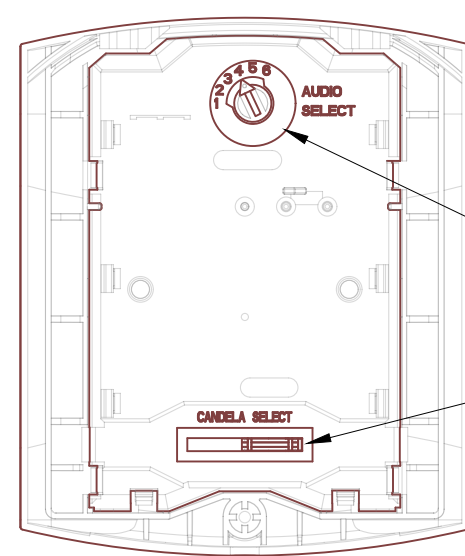
SYSTEM SENSOR LED-SERIES  
HORN / STROBE & STROBE



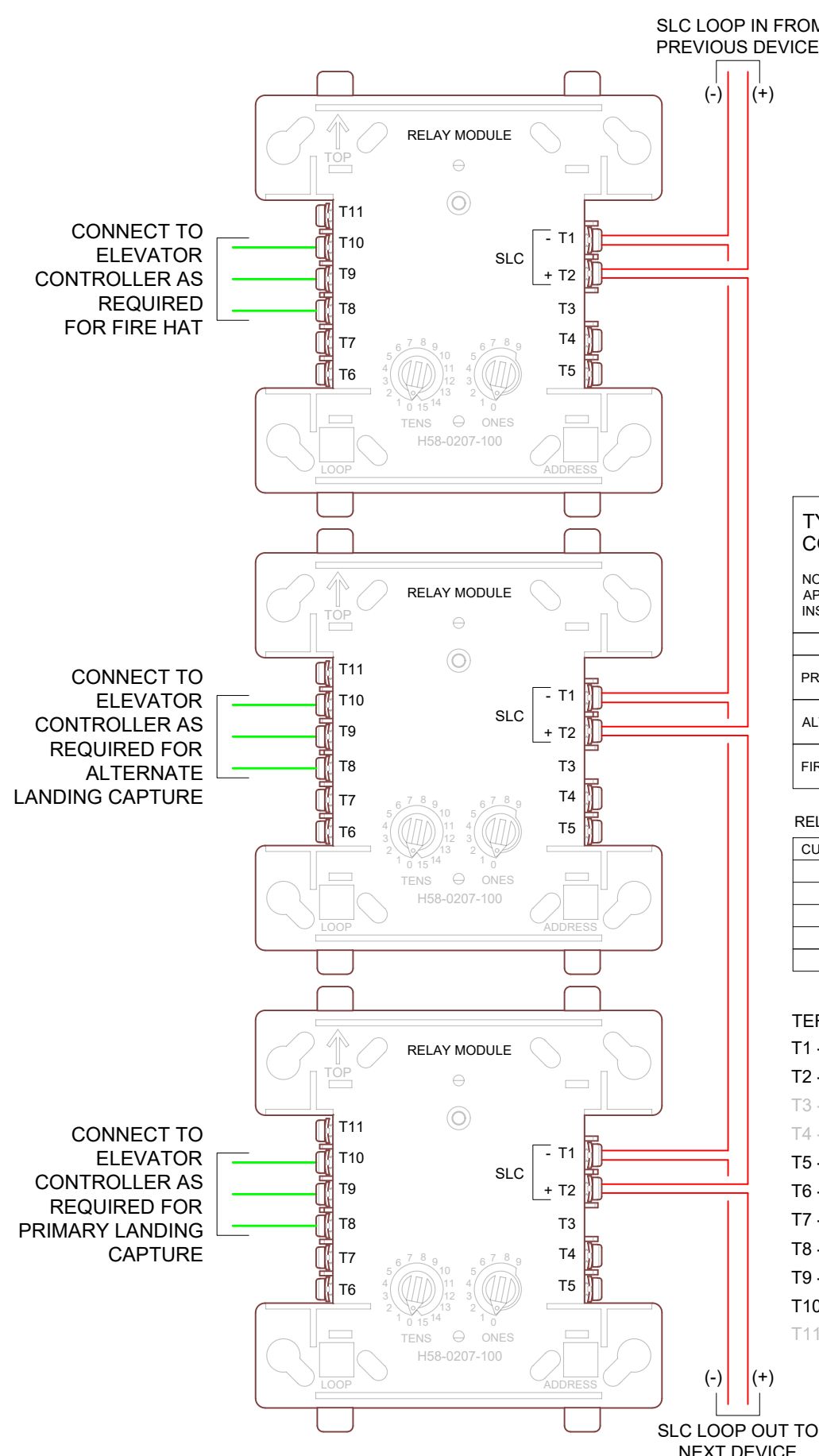
SYSTEM SENSOR P2RK  
OUTDOOR HORN / STROBE



LED-SERIES HORN / STROBE  
CANDELA & AUDIBLE SETTINGS



P2RK OUTDOOR HORN / STROBE  
CANDELA & AUDIBLE SETTINGS



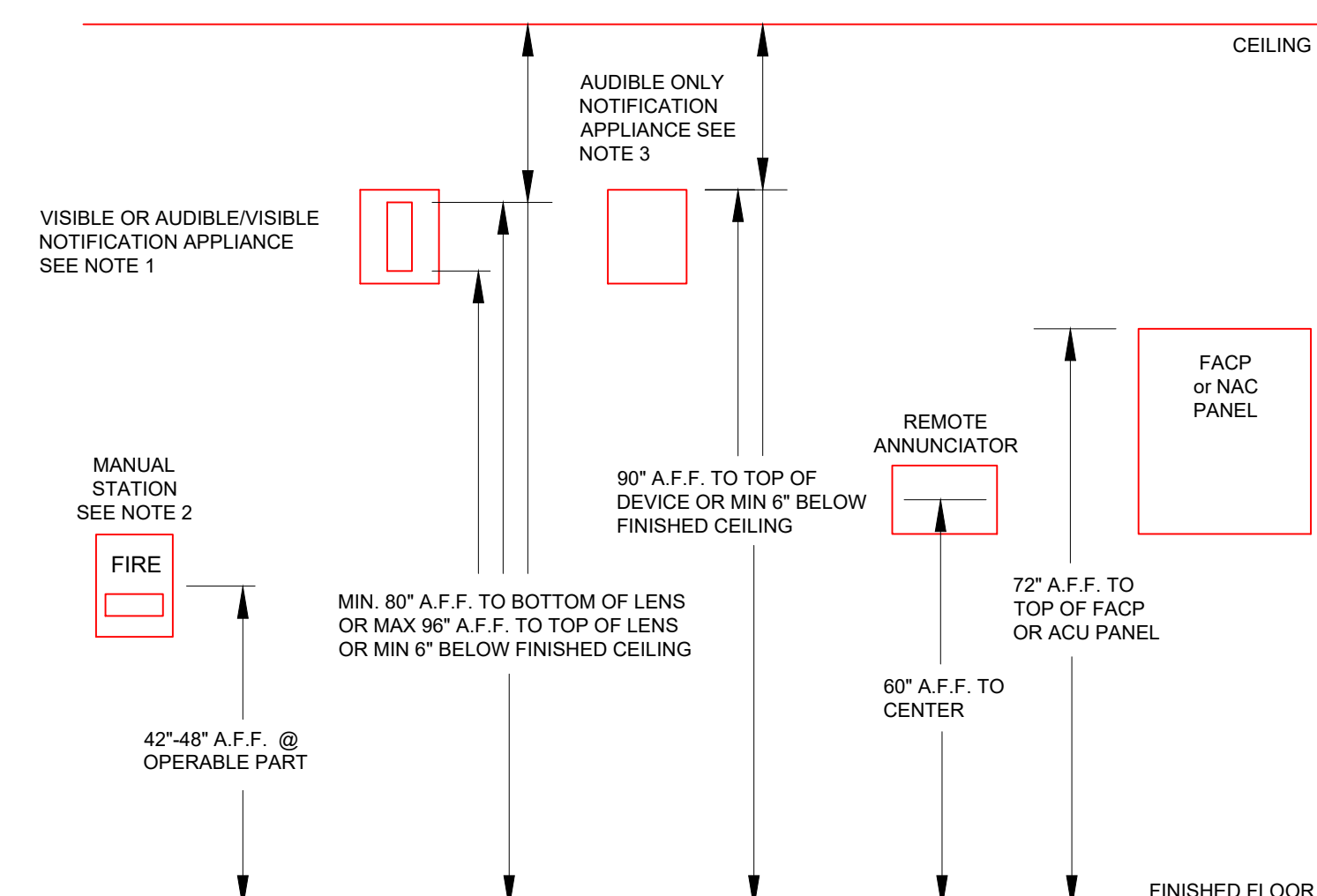
FRM-1 RELAY MODULE/ELEVATOR INTERFACES

TYPICAL ELEVATOR CONTROL MATRIX		DETECTOR LOCATION			
		ELEVATOR MACHINE ROOM	FAVORABLE SHAF (IF ANY)	DESIGNATED FLOOR	NON-DESIGNATED FLOORS
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)

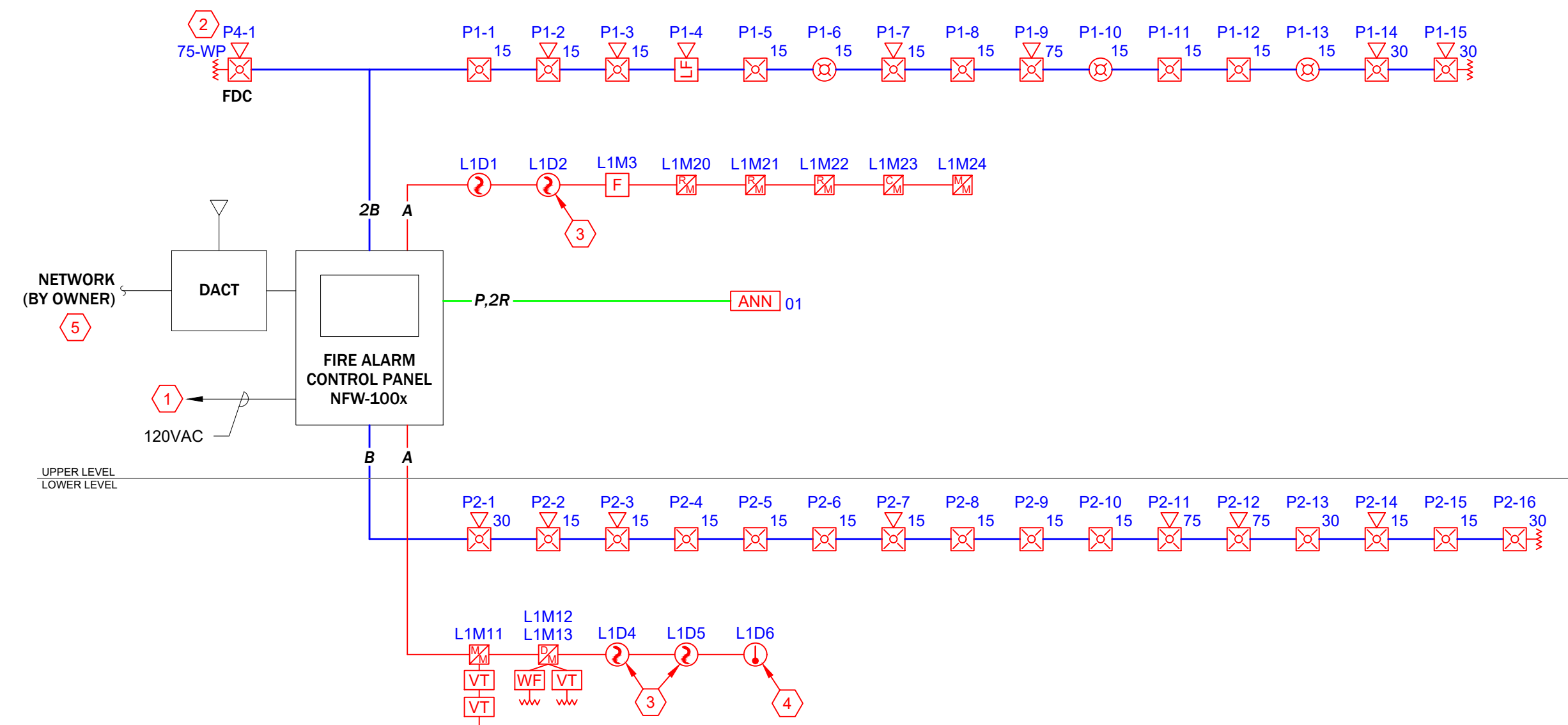
TERMINAL ID  
T1 - SLC LOOP (-)  
T2 - SLC LOOP (+)  
T3 - NOT USED  
T4 - NOT USED  
T5 - NORMALLY OPEN 1  
T6 - NORMALLY CLOSED 1  
T7 - RELAY COMMON 1  
T8 - NORMALLY OPEN 2  
T9 - NORMALLY CLOSED 2  
T10 - RELAY COMMON 2  
T11 - NOT USED

- 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.



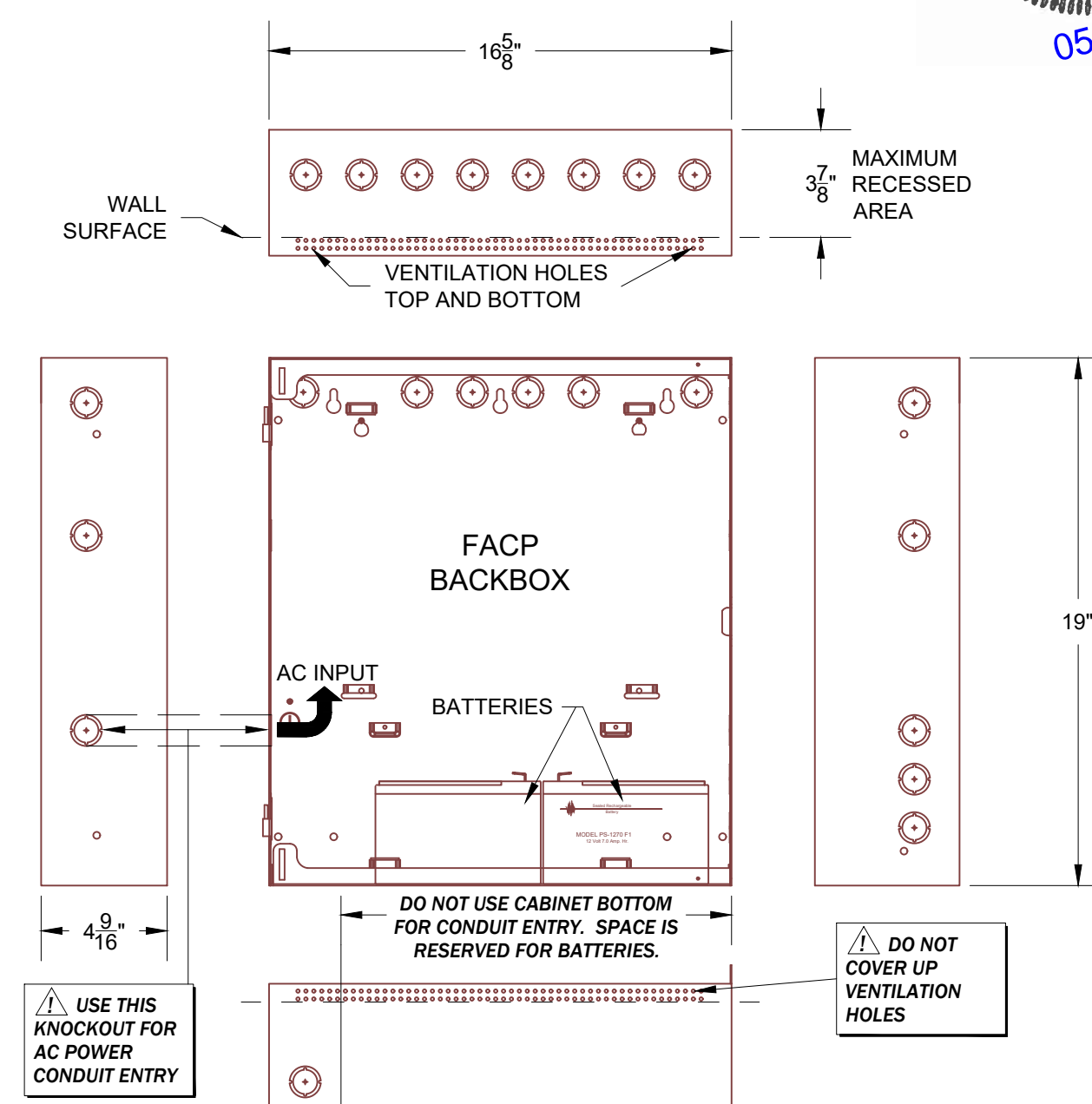
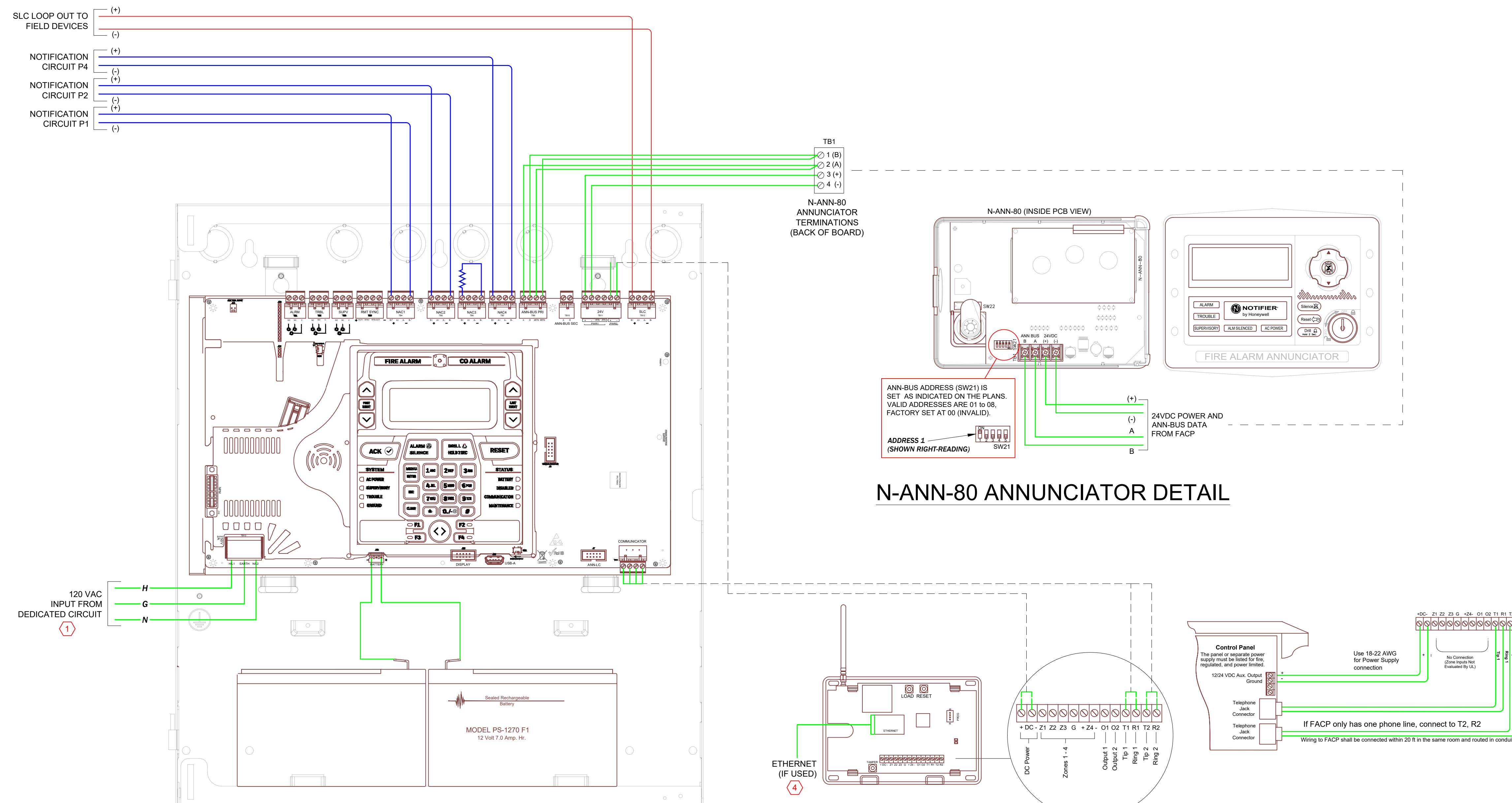
INSTALLATION HEIGHTS FOR  
WALL MOUNTED DEVICES





# 1 RISER DIAGRAM - CLUBHOUSE

SCALE: NONE



KEYED NOTES		DWG SHEET # FA-103
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	OWNER TO PROVIDE I/P CONNECTION FOR DACT IF DESIRED FOR PRIMARY OR BACKUP COMMUNICATION CHANNEL TO CENTRAL STATION MONITORING SERVICE.	