

4TH LANE FLATS

1309 4TH AVE LANE NE

KASSON, MN

FIRE ALARM SHEET INDEX	
SHEET NUMBER	SHEET NAME
FA001	PROJECT INFORMATION
FA002	FIRE ALARM LEGEND
FA201	PARKING LEVEL
FA202	LEVEL 1 FIRE ALARM FLOOR PLAN
FA203	LEVEL 2 FIRE ALARM FLOOR PLAN
FA204	LEVEL 3 FIRE ALARM FLOOR PLAN
FA301	FIRE ALARM RISER DETAILS
FA401	FIRE ALARM SYSTEM ACTIVATION MATRIX
FA402	FIRE ALARM BATTERY CALCULATIONS



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FAX: 507-287-0757
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REVISIONS			
NO	REASON	JOB #	DATE
01	FA/AOR SUBMITTAL	E-788590E	09/03/25
02	AC SUBMITTAL	E-788598B	09/03/25
03	CCTV SUBMITTAL	E-78859C	09/03/25

4TH LANE FLATS
1309 4TH AVE LANE NE
KASSON, MN

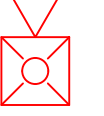
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SYSTEM TYPE(S) FIRE ALARM SYSTEM	
DESCRIPTION PROJECT INFORMATION	
SCALE: AS NOTED	

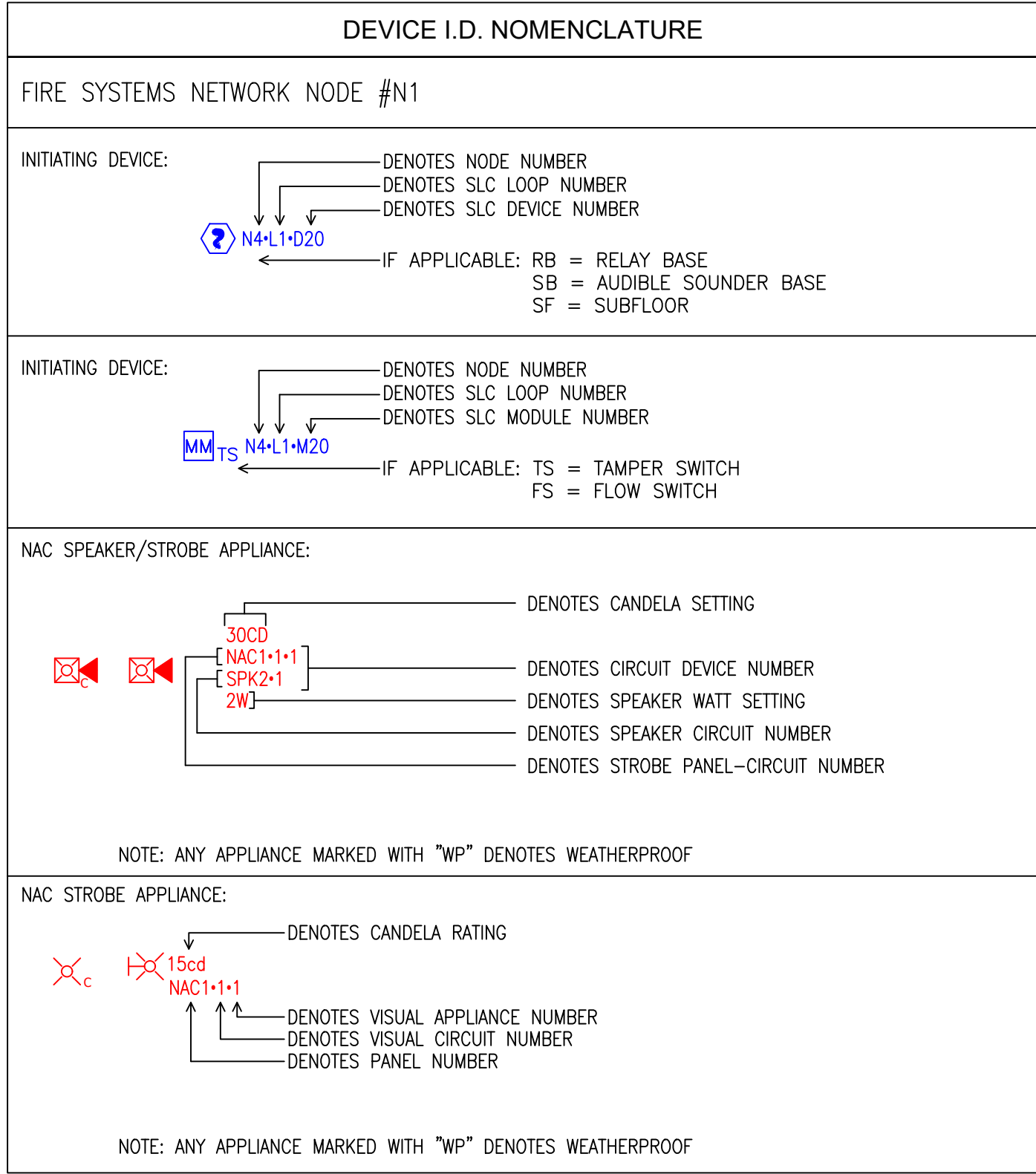
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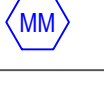
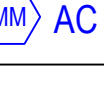
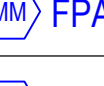
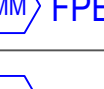
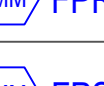
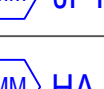
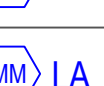
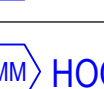
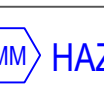
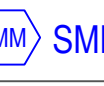
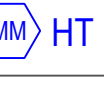
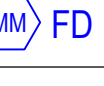
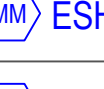
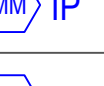
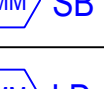
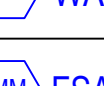
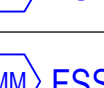
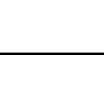
I hereby certify that this plan, specification or report, was prepared by me or under my direct supervision, and that I am a duly licensed Power Limited Technician in Minnesota.
License #PL 08333

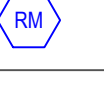
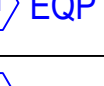
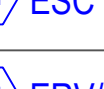
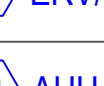
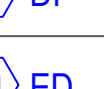
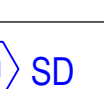
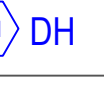
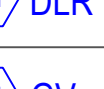
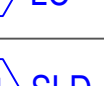
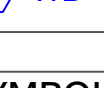
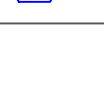
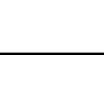
Rowland Ploenzke
NICET Certification #122778 Level 3

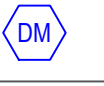
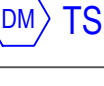
DEVICE LEGEND				
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
 DM	5	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B
	14	SYSTEM SENSOR	P2WLED	2-WIRE, HORN STROBE, WHITE
	1	NOTIFIER	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR
	4	NOTIFIER	ISO-X	SLC LOOP ISOLATOR MODULE
	3	GENERIC	AOR	AREA OF RESCUE
 LF	8	SYSTEM SENSOR	P2WL-LF	2-WIRE, HORN STROBE, WHITE
	1	POTTER	PSN-106B	10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE
 C	5	SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE
	1	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION. INCLUDES KEY LOCKING FEATURE.
	1	NOTIFIER	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR
	6	NOTIFIER	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT
	7	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
	1	GENERIC	MAOR	MASTER AREA OF RESCUE
 LF	63	NOTIFIER	HWL-LF	LF SOUNDER, WALL, WHITE
	9	NOTIFIER	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR. FLASHSCAN ONLY.
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE				
	1	SPACE AGE ELECTRONICS	E120V-GT	HYBRID SURGE PROTECTION DEVICE
	1	HONEYWELL	HW-AV-LTE-M	DUAL-PATH COMMUNICATOR WITH ENCLOSURE. INCLUDES ANTENNA.
	1	NOTIFIER	NFW-100X MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD
	1	NOTIFIER	PWRMOD24	NAC POWER EXPANDER
	1	POTTER	PSN-106B MAIN BOARD	PSN-106 MAIN BOARD



MODULE DESCRIPTION TABLE (WITH SYMBOLS)

SYMBOL	COMPONENT NAME	
	MONITOR MODULE	
	SUBSCRIPT / DESCRIPTION	
 AC	AC	AC FAIL
 FP	FP	FIRE PUMP
 FPAC	FPAC	FIRE PUMP AC FAIL
 FPB	FPB	FIRE PUMP BYPASS
 FPE	FPE	FIRE PUMP EMERGENCY POWER
 FPP	FPP	FIRE PUMP PHASE REVERSAL
 FPR	FPR	FIRE PUMP RUN
 FPS	FPS	FIRE PUMP SUCTION
 JPTS	JPTS	JOCKEY PUMP TAMPER SWITCH
 HA	HA	HIGH AIR
 FS	FS	FLOW SWITCH
 LA	LA	LOW AIR SENSOR
 TS	TS	TAMPER SWITCH
 HOOD	HOOD	KITCHEN HOOD
 KBY	KBY	KITCHEN HOOD BYPASS
 KTS	KTS	KITCHEN HOOD TAMPER SWITCH
 GSW	GSW	GAS PUSH BUTTON
 HAZ	HAZ	HAZ PUSH BUTTON
 SP	SP	SPILL PURGE
 EVAC	EVAC	EVAC
 FAN	FAN	FAN SHUTDOWN
 VFD	VFD	VFD FAN SHUTDOWN
 STF	STF	STAIR FAN
 SMPE	SMPE	SMOKE PURGE / EVAC
 SMP	SMP	SMOKE PURGE
 HT	HT	HEAT DETECTOR
LT	LT	LOW TEMPERATURE SENSOR
FD	FD	FLAME DETECTOR
CO	CO	CARBON MONOXIDE
ESH	ESH	ELEVATOR SHUNT
FACP	FACP	FACP MONITOR
IP	IP	IPDACT
ISO	ISO	ISO BUTTON
SB	SB	SOUNDERBASE POWER
LD	LD	LOCK DOWN
WA	WA	WEATHER ALERT
FSA	FSA	FIRE SUPPRESSION: FIRE ALARM
FST	FST	FIRE SUPPRESSION: FIRE TROUBLE
FSS	FSS	FIRE SUPPRESSION: FIRE SUPERVISORY

SYMBOL	COMPONENT NAME	
	RELAY MODULE	
	SUBSCRIPT / DESCRIPTION	
 PRI	PRI	ELEVATOR RECALL PRIMARY
 ALT	ALT	ELEVATOR RECALL ALTERNATE
 EQP	EQP	ELEVATOR RECALL EQUIPMENT
 ST	ST	ELEVATOR RECALL SHUNT
 ESC	ESC	ELEVATOR SMOKE CURTAIN
 ERV/R	ERV/R	ELEVATOR SHUTDOWN RETURN
 ERV/S	ERV/S	ELEVATOR SHUTDOWN SUPPLY
 AHU	AHU	AIR HANDLING UNIT SHUTDOWN
 DP	DP	DAMPER
 ED	ED	EXHAUST DAMPER
 FAN	FAN	FAN SHUTDOWN
 RTU	RTU	RTU SHUTDOWN
 RD	RD	RETURN DAMPER
 SD	SD	SUPPLY DAMPER
 SMD	SMD	SMOKE DAMPER
 STP	STP	STAIR PRESSURIZATION
 STF	STF	STAIR FAN
 VFD	VFD	VFD FAN SHUTDOWN
 EVAC	EVAC	SMOKE EVACUATION
 SH	SH	SMOKE HATCH
 SMPE	SMPE	SMOKE PURGE / EVAC
 SMP	SMP	SMOKE PURGE
 AD	AD	AUTOMATIC DOOR HOLDER
 CDR	CDR	COIL DOOR
 DEG	DEG	DELAYED EGRESS DOOR
 DH	DH	DOOR HOLD RELEASE
HOT	HOT	DOOR HOLD OPEN TRACK
SCD	SCD	SECURITY DOOR RELEASE
WD	WD	WON DOOR
ACC	ACC	ACCESS CONTROL
ANN	ANN	ANNUNCIATOR
BAS	BAS	BUILDING AUTOMATION SYSTEM
BL	BL	BOX LIFT
DLR	DLR	DIALER TRIP
GV	GV	GAS VALVE
LC	LC	LIGHTING CONTROL
SLD	SLD	SOLENOID
WB	WB	WATER BELL BYPASS

SYMBOL	COMPONENT NAME	
	DUAL MONITOR MODULE	
	SUBSCRIPT / DESCRIPTION	
 FS	FS	FIRE SPRINKLER WATERFLOW SWITCH
 LA	LA	FIRE SPRINKLER LOW AIR SENSOR
 TS	TS	FIRE SPRINKLER TAMPER SWITCH / ZONE CONTROL VALVE
 AOR	AOR	AREA OF RESCUE LOSS OF POWER / TROUBLE



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01	FA/AOR SUBMITTAL	E-788590/E	09/03/25
02	AC SUBMITTAL	E-78859B	09/03/25
03	CCTV SUBMITTAL	E-78859C	09/03/25

4TH LANE FLATS
1309 4TH AVE LANE NE
KASSON, MN

DRAWN BY PGG	DATE 09/03/25
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DESIGNED BY
B MCCAILEB

SOLD BY
B MCCAILEB

SYSTEM TYPE(S)
FIRE ALARM SYSTEM

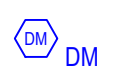
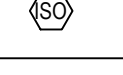
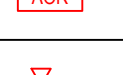
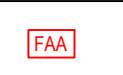
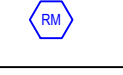
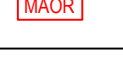
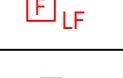
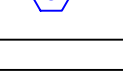
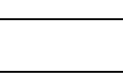
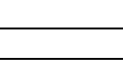
DESCRIPTION
FIRE ALARM LEGEND

SCALE: AS NOTED

FA002

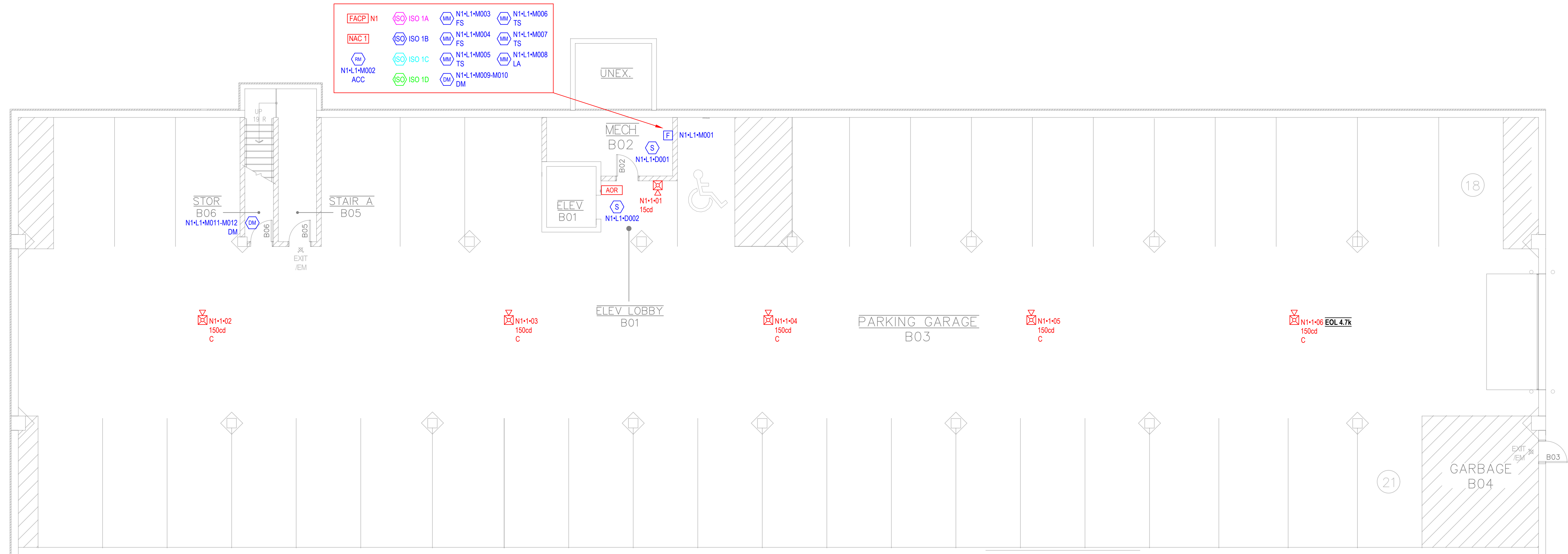
I hereby certify that this plan, specification or report, was prepared by me or under my direct supervision, and that I am a duly licensed Power Limited Technician in Minnesota.
License #PL 06333
Rowland Ploenzke
NICET Certification #122778 Level 3

FILE PATH: L:\CAD Projects\K\KASSON, MN\1303 4TH AVE LN NE (4TH LANE FLATS)\DEVICE DRAWING LAYOUT\4LF.dwg

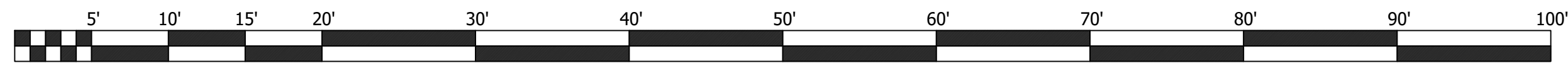
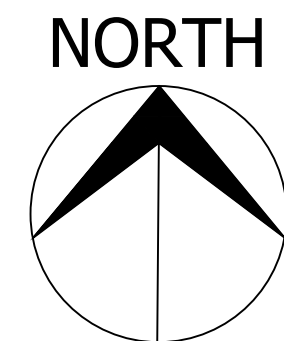
DEVICE LEGEND				
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
	5	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B
	14	SYSTEM SENSOR	P2WLED	2-WIRE, HORN STROBE, WHITE
	1	NOTIFIER	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR
	4	NOTIFIER	ISO-X	SLC LOOP ISOLATOR MODULE
	3	GENERIC	AOR	AREA OF RESCUE
	8	SYSTEM SENSOR	P2WL-LF	2-WIRE, HORN STROBE, WHITE
	1	POTTER	PSN-106B	10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE
	5	SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE
	1	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE.
	1	NOTIFIER	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR
	6	NOTIFIER	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR GLASS B OF DRY CONTACT INPUT
	7	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
	1	GENERIC	MAOR	MASTER AREA OF RESCUE
	63	NOTIFIER	HWL-LF	LF SOUNDER, WALL, WHITE
	9	NOTIFIER	FSP-951 WB300-6	ADDRESSABLE LOW PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE				
	1	SPACE AGE ELECTRONICS	E120V-GT	HYBRID SURGE PROTECTION DEVICE
	1	HONEYWELL	HW-AV-LTE-M	DUAL-PATH COMMUNICATOR WITH ENCLOSURE, INCLUDES ANTENNA.
	1	NOTIFIER	NFW-100X MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD
	1	NOTIFIER	PWRMOD24	NAC POWER EXPANDER
	1	POTTER	PSN-106B MAIN BOARD	PSN-106 MAIN BOARD

NOTES:

- DEVICES NOTED AS 'EX' ON FLOOR PLAN ARE EXISTING
- DEVICES ON FLOOR PLAN WITH NO ICONS ARE NEW



I hereby certify that this plan, specification or report, was prepared by me or under my direct supervision, and that I am a duly licensed Power Limited Technician in Minnesota.
License #PL 08333
Rowland Ploerzle
NICET Certification #122778 Level 3



Scale: 1/8" = 1'-0"



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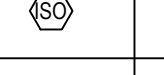
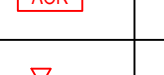
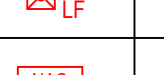
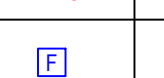
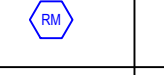
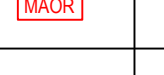
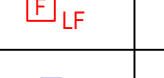
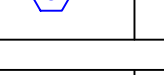
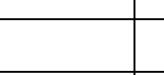
REVISIONS			
NO	REASON	JOB #	DATE
01	FA/AOR SUBMITTAL	E-788590E	09/03/25
02	AC SUBMITTAL	E-788598B	09/03/25
03	CCTV SUBMITTAL	E-788599C	09/03/25

4TH LANE FLATS
1309 4TH AVE LANE NE
KASSON, MN

DRAWN BY PGG	DATE 09/03/25
DESIGNED BY B MCCALED	
SOLD BY B MCCALED	
SYSTEM TYPE(S) FIRE ALARM SYSTEM	
DESCRIPTION PARKING LEVEL	
SCALE: 1/8" = 1'-0"	

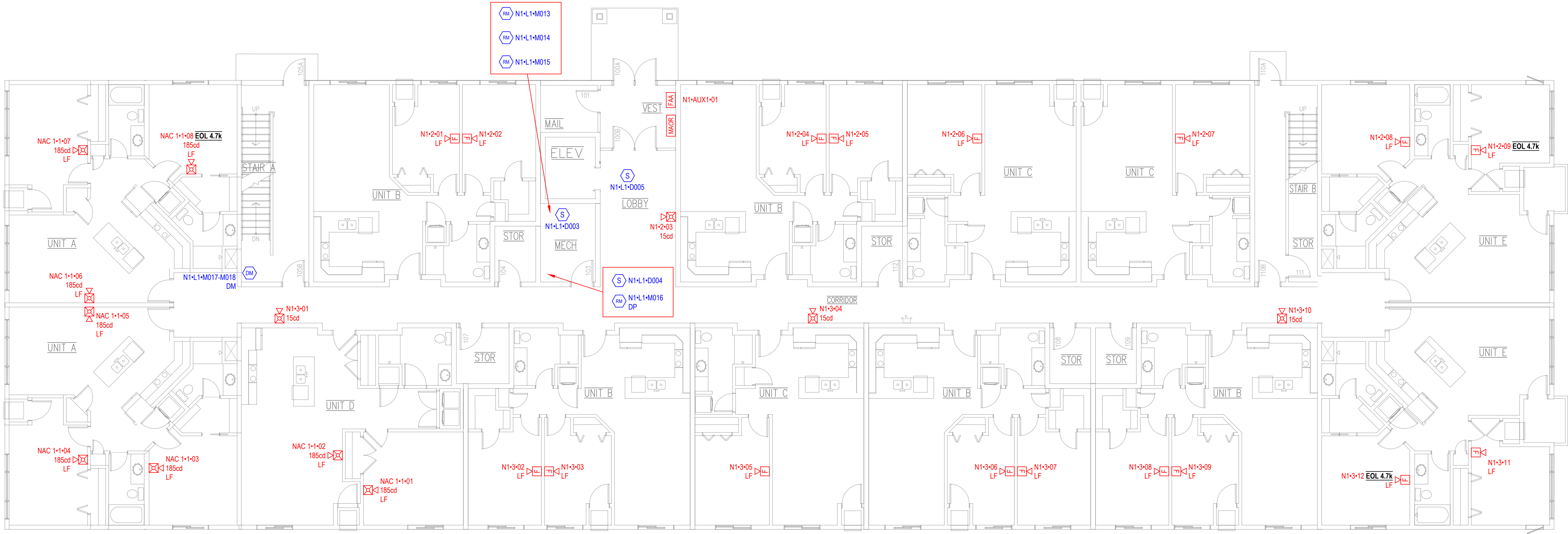
FA201

FILE PATH: L:\CAD Projects\K\KASSON, MN\1503 4TH AVE LN NE (4TH LANE FLATS)\DEVICE DRAWING LAYOUT\4LF.dwg

DEVICE LEGEND				
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
	5	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B
	14	SYSTEM SENSOR	PZWLED	2-WIRE, HORN STROBE, WHITE
	1	NOTIFIER	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR
	4	NOTIFIER	ISO-X	SLC LOOP ISOLATOR MODULE
	3	GENERIC	AOR	AREA OF RESCUE
	8	SYSTEM SENSOR	PZW-LF	2-WIRE, HORN STROBE, WHITE
	1	POTTER	PSN-106B	10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE
	5	SYSTEM SENSOR	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE
	1	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE.
	1	NOTIFIER	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR
	6	NOTIFIER	FRM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR GLASS B OF DRY CONTACT INPUT
	7	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
	1	GENERIC	MAOR	MASTER AREA OF RESCUE
	63	NOTIFIER	HWL-LF	LF SOUNDER, WALL, WHITE
	9	NOTIFIER	FSP-951 WB300-6	ADDRESSABLE LOW PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE				
	1	SPACE AGE ELECTRONICS	E120V-GT	HYBRID SURGE PROTECTION DEVICE
	1	HONEYWELL	HW-AV-LTE-M	DUAL-PATH COMMUNICATOR WITH ENCLOSURE, INCLUDES ANTENNA.
	1	NOTIFIER	NFW-100X MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD
	1	NOTIFIER	PWRMOD24	NAC POWER EXPANDER
	1	POTTER	PSN-106B MAIN BOARD	PSN-106 MAIN BOARD

NOTES:

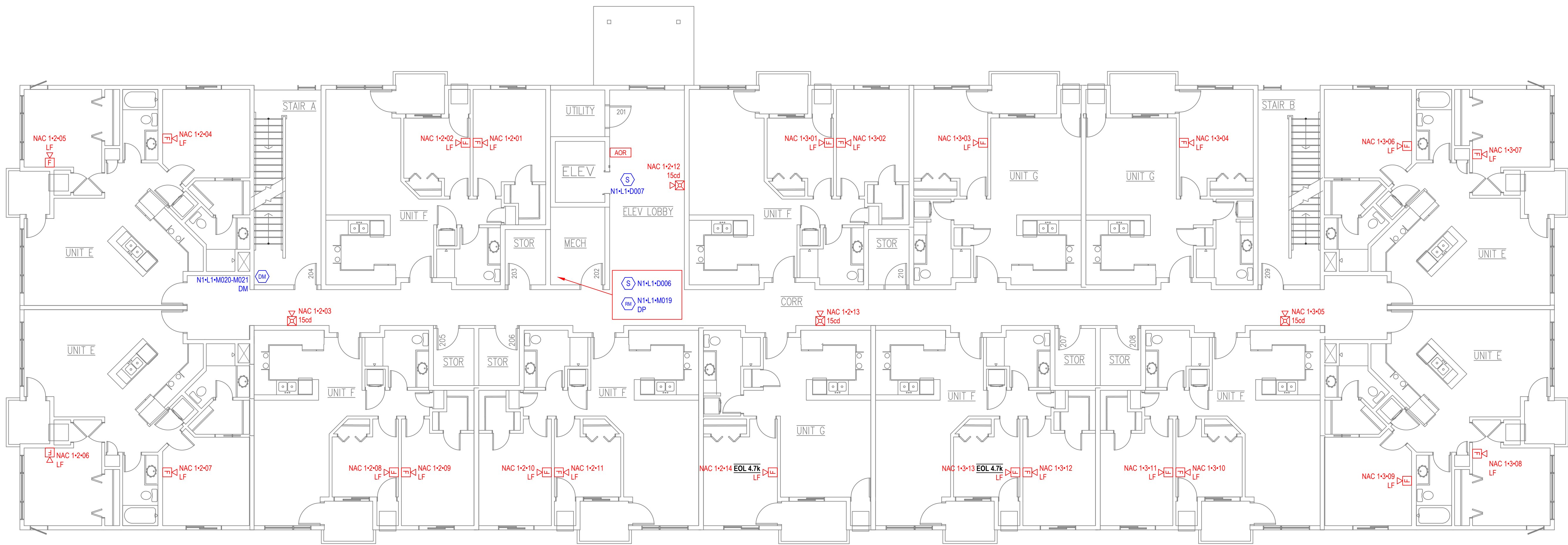
- 1) DEVICES NOTED AS 'EX' ON FLOOR PLAN ARE EXISTING
- 2) DEVICES ON FLOOR PLAN WITH NO ICONS ARE NEW



SYMBOL	QUANTITY	MANUFACTURER	DEVICE LEGEND		DESCRIPTION
			PART NO		
 DM	5	NOTIFIER	FDM-1		ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN 2 CLASS B
 PZWL	14	SYSTEM SENSOR	P2WLED		2-WIRE, HORN STROBE, WHITE
 FACP	1	NOTIFIER	NFW-100X		FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR
 ISO	4	NOTIFIER	ISO-X		SLC LOOP ISOLATOR MODULE
 AOR	3	GENERIC	AOR		AREA OF RESCUE
 P2WL	8	SYSTEM SENSOR	P2WL-LF		2-WIRE, HORN STROBE, WHITE
 NAC	1	POTTER	PSN-106B		10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE
 PC2WL	5	SYSTEM SENSOR	PC2WLED		2-WIRE, HORN STROBE, CEILING, WHITE
 F	1	NOTIFIER	NBQ-12LX		DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOOKING-FEATURE
 FAA	1	NOTIFIER	N-ANN-80		BLACK 80 CHARACTER LCD ANNUNCIATOR
 MM	6	NOTIFIER	MM-1		ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISORY CLASS A OR CLASS B OF DRY CONTACT INPUT
 FM	7	NOTIFIER	FRM-1		ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
 MAOR	1	GENERIC	MAOR		MASTER AREA OF RESCUE
 P2WL	63	NOTIFIER	HWL-LF		LF SOUNDER, WALL, WHITE
 S	9	NOTIFIER	FSP-951 WB300-6		ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE					
1	SPACE AGE ELECTRONICS	E120V-GT			HYBRID SURGE PROTECTION DEVICE
1	HONEYWELL	HW-AVLT-E-M			DUAL-PATH COMMUNICATOR WITH ENCLOSURE, INCLUDES ANTENNA
1	NOTIFIER	NFW-100X MAIN BOARD			FIRE ALARM CONTROL PANEL MAIN BOARD
1	NOTIFIER	PFWMCD24			NAC POWER EXPANDER
1	POTTER	PSN-106B MAIN BOARD			PSN-106B MAIN BOARD

NOTES:

- 1) DEVICES NOTED AS 'EX' ON FLOOR PLAN ARE EXISTING
- 2) DEVICES ON FLOOR PLAN WITH NO ICONS ARE NEW



CUSTOM COMMUNICATIONS
1661 GREENVIEW DR SW
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TOLL FREE: 800-533-1602
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WWW.CUSTOM-ALARM.COM

REVISIONS			
NO	REASON	JOB #	DATE
01	FA/AOR SUBMITTAL	E-78859D/E	09/03/25
02	AC SUBMITTAL	E-78859B	09/03/25
03	CCTV SUBMITTAL	E-78859C	09/03/25

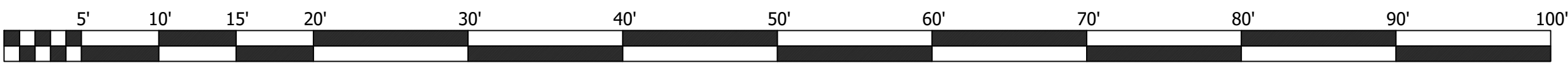
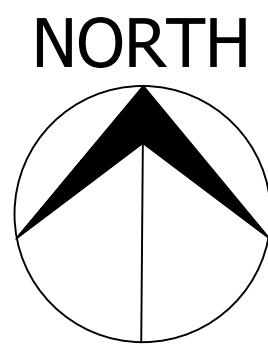
4TH LANE FLATS
1309 4TH AVE LANE NE
KASSON, MN

DRAWN BY PGG	DATE 09/03/25
DESIGNED BY B MCCAULEB	
SOLD BY B MCCAULEB	
SYSTEM TYPE(S) FIRE ALARM SYSTEM	
DESCRIPTION LEVEL 2	
SCALE: 1/8" = 1'-0"	

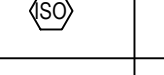
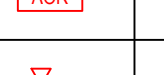
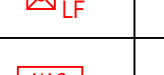
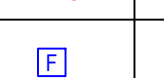
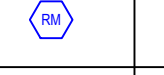
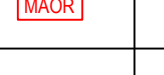
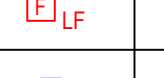
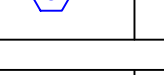
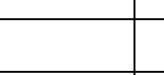
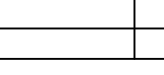
FA203

FILE PATH: L:\CAD Projects\K\KASSON, MN\1503 4TH AVE LN NE (4TH LANE FLATS)\DEVICE DRAWING LAYOUT\4LF.dwg

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License #PL 06333

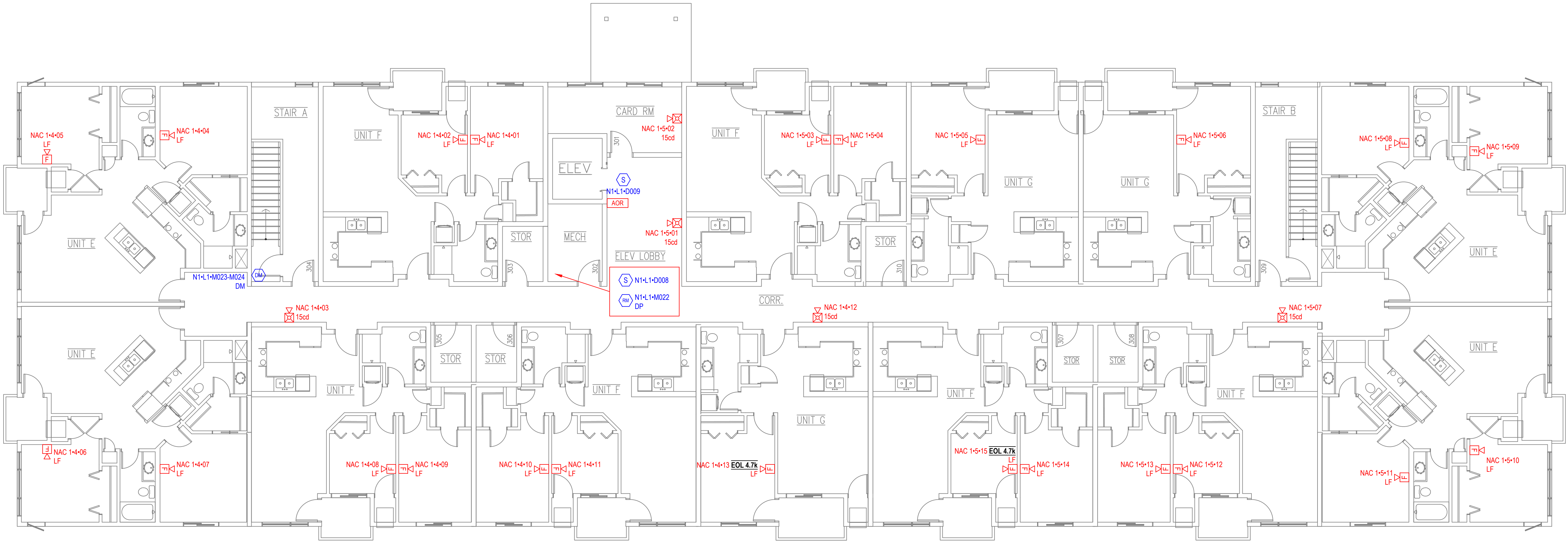


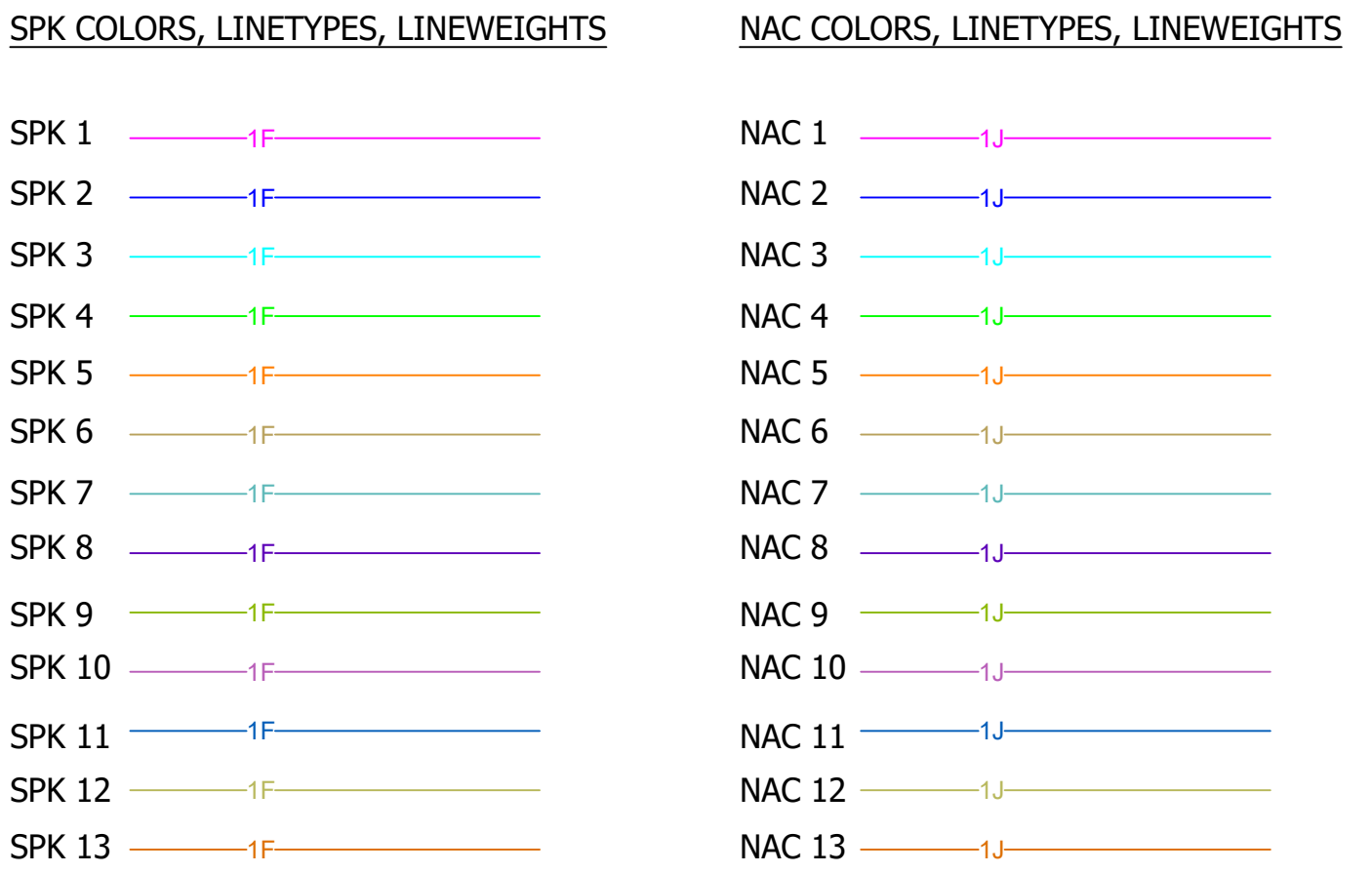
Scale: $1/8" = 1'-0"$

DEVICE LEGEND				
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
	5	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B
	14	SYSTEM SENSOR	P2WLED	2-WIRE, HORN STROBE, WHITE
	1	NOTIFIER	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR
	4	NOTIFIER	ISO-X	SLC LOOP ISOLATOR MODULE
	3	GENERIC	AOR	AREA OF RESCUE
	8	SYSTEM SENSOR	P2WL-LF	2-WIRE, HORN STROBE, WHITE
	1	POTTER	PSN-106B	10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE
	5	SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE
	1	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE.
	1	NOTIFIER	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR
	6	NOTIFIER	FRM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR GLASS B OF DRY CONTACT INPUT
	7	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
	1	GENERIC	MAOR	MASTER AREA OF RESCUE
	63	NOTIFIER	HWL-LF	LF SOUNDER, WALL, WHITE
	9	NOTIFIER	FSP-951 WBS300-6	ADDRESSABLE LOW PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE				
	1	SPACE AGE ELECTRONICS	E120V-GT	HYBRID SURGE PROTECTION DEVICE
	1	HONEYWELL	HW-AV-LTE-M	DUAL-PATH COMMUNICATOR WITH ENCLOSURE, INCLUDES ANTENNA.
	1	NOTIFIER	NFW-100X MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD
	1	NOTIFIER	PWARMOD24	NAC POWER EXPANDER
	1	POTTER	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD

NOTES:

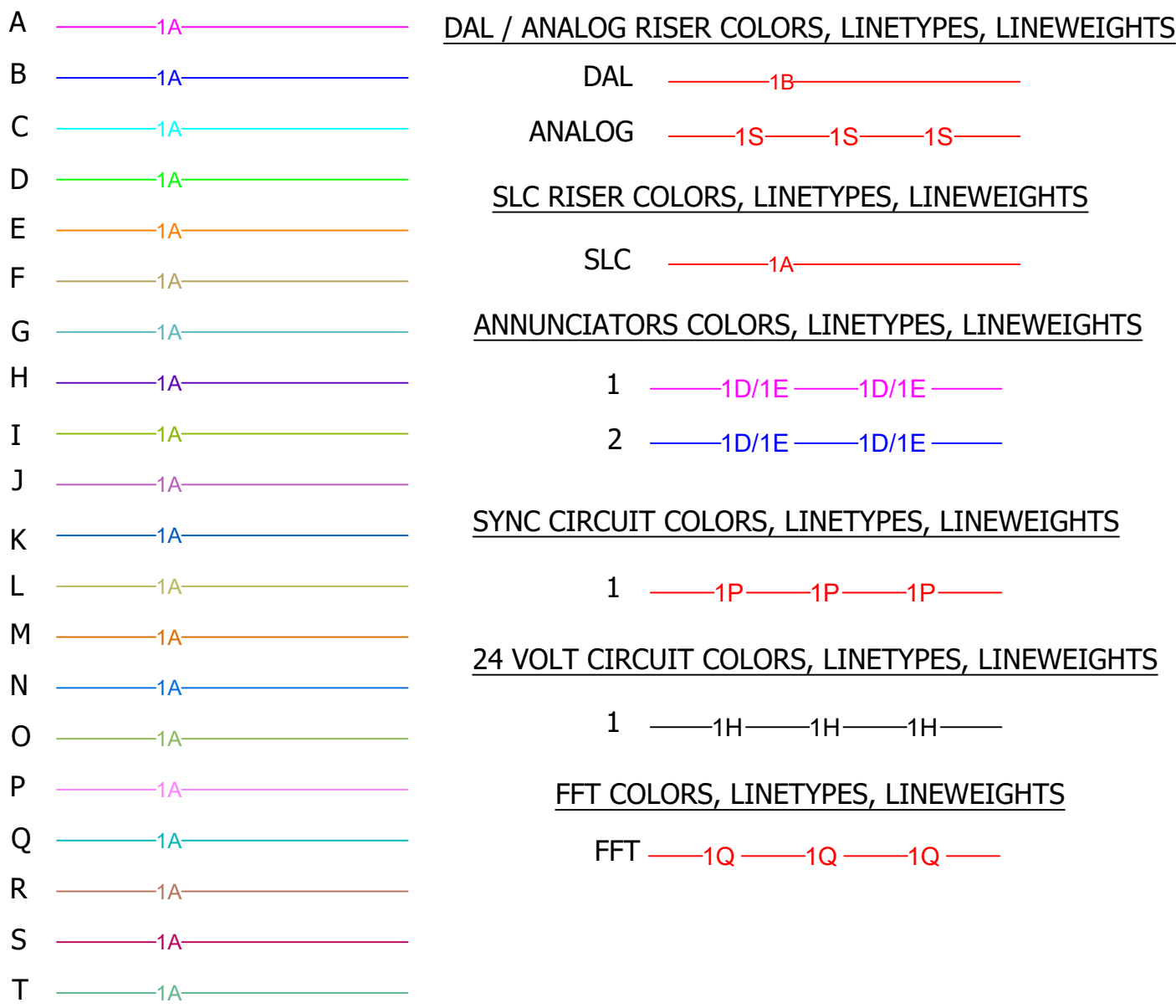
- 1) DEVICES NOTED AS 'EX' ON FLOOR PLAN ARE EXISTING
- 2) DEVICES ON FLOOR PLAN WITH NO ICONS ARE NEW





USE CONTINUOUS ON ALL LAYERS FOR SLC ISO'S

SLC ISO COLORS, LINETYPES, LINEWEIGHTS



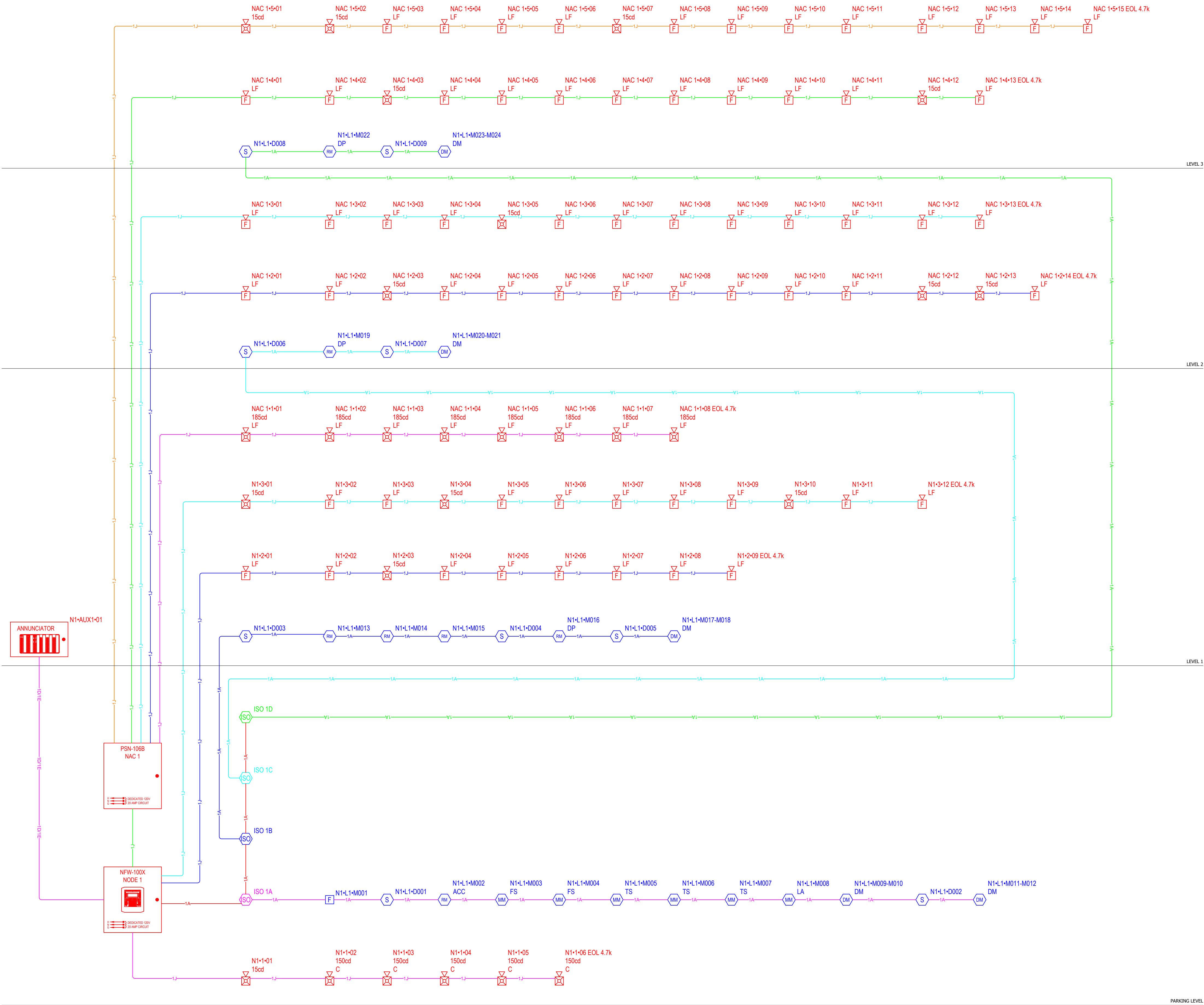
FIRE ALARM WIRE LEGEND	
CIRCUIT TYPE	TYPICAL WIRE TYPE
1	16/2 NS FPLP (WINDY CITY WIRE 761362), 761362FPLP-CI (R)
2	16/2 SH FPLP (WINDY CITY WIRE 761326), 761326FPLP-CI (R)
3	16/2 NS FPLP (WINDY CITY WIRE 761320) (NR), 761320FPLP-CI (R)
4	16/4 SH FPLP (WINDY CITY WIRE 761347), 761347FPLP-CI (R)
5	18/2 NS FPLP (BELDEN 5320UJ002U1000, NO SUBSTITUTE)
6	18/4 NS FPLP (WINDY CITY WIRE 762380), 762380FPLP-CI (R)
7	14/2 NS FPLP (WINDY CITY WIRE 767963)
8	14/2 NS FPLP BLACK STRIPE (WINDY CITY WIRE 7679631)

NOTE: (R) INDICATES 2HR RATED CABLE TO BE USED

A = SLC CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
B = DIGITAL LOW LEVEL AUDIO FEED - REFER TO FIRE ALARM WIRE LEGEND, TYPE 5
C = DIGITAL LOW LEVEL AUDIO RETURN - REFER TO FIRE ALARM WIRE LEGEND, TYPE 5
D = ANNUNCIATOR DATA - REFER TO FIRE ALARM WIRE LEGEND, TYPE 4
E = ANNUNCIATOR POWER - REFER TO FIRE ALARM WIRE LEGEND, TYPE 8
F = SPEAKER (AUDIO) CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 2
G = STROBE (VISUAL) CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 7
H = 24VDC POWER - REFER TO FIRE ALARM WIRE LEGEND, TYPE 8
I = REMOTE TEST SWITCH - REFER TO FIRE ALARM WIRE LEGEND, TYPE 6
J = CHIME OR HORN STROBE CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 7
K = MONITOR MODULE INTERFACE - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
L = CONVENTIONAL DEVICES - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
M = REMOTE INDICATOR - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
N = UNUSED
O = CO DETECTOR MONITORING - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
P = SYNC CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
Q = DAA TO FFT CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
R = FFT TO FIRE PHONE JACK CIRCUIT - REFER TO FIRE ALARM WIRE LEGEND, TYPE 1
S = ANALOG LOW LEVEL AUDIO FEED - REFER TO FIRE ALARM WIRE LEGEND, TYPE 3

NOTE: A NUMBER PRECEDING THE WIRE LETTER INDICATES MULTIPLE WIRES

I hereby certify that this plan, specification or report, was prepared by me or under my direct supervision, and that I am a duly licensed Power Limited Technician in Minnesota.
License #PL 08333
Rowland Plonczko
NICET Certification #122778 Level 3



CUSTOM COMMUNICATIONS
1661 GREENVIEW DR SW
ROCHESTER, MN 55902
PHONE: 507-288-5522
TOLL FREE: 800-533-1602
FAX: 507-287-0757
WWW.CUSTOM-ALARM.COM

REVISIONS			
NO	REASON	JOB #	DATE
01	FA/AOR SUBMITTAL	E-78859D/E	09/03/25
02	AC SUBMITTAL	E-78859B	09/03/25
03	CCTV SUBMITTAL	E-78859C	09/03/25

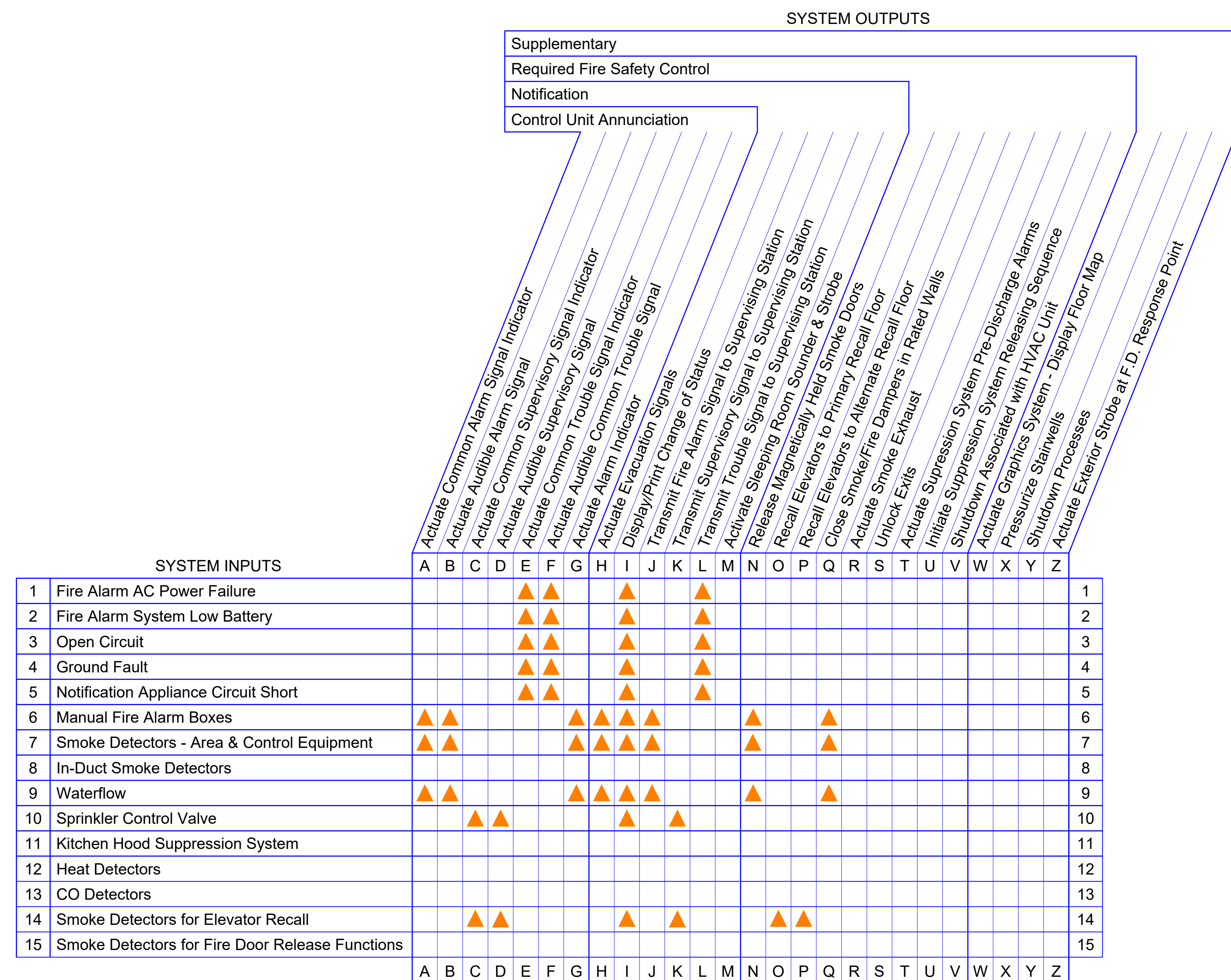
4TH LANE FLATS
1309 4TH AVE LANE NE
KASSON, MN

DRAWN BY	PGG	DATE	09/03/25
DESIGNED BY	B MCCAILEB		
SOLD BY	B MCCAILEB		
SYSTEM TYPE(S)	FIRE ALARM SYSTEM		
DESCRIPTION	RISER DIAGRAM		
SCALE:	AS NOTED		

FA301

FILE PATH: L:\CAD Projects\K\KASSON, MN\1503 4TH AVE LN NE (4TH LANE FLATS)\DEVICE DRAWING LAYOUT\4LF.dwg

FIRE ALARM SYSTEM ACTIVATION MATRIX

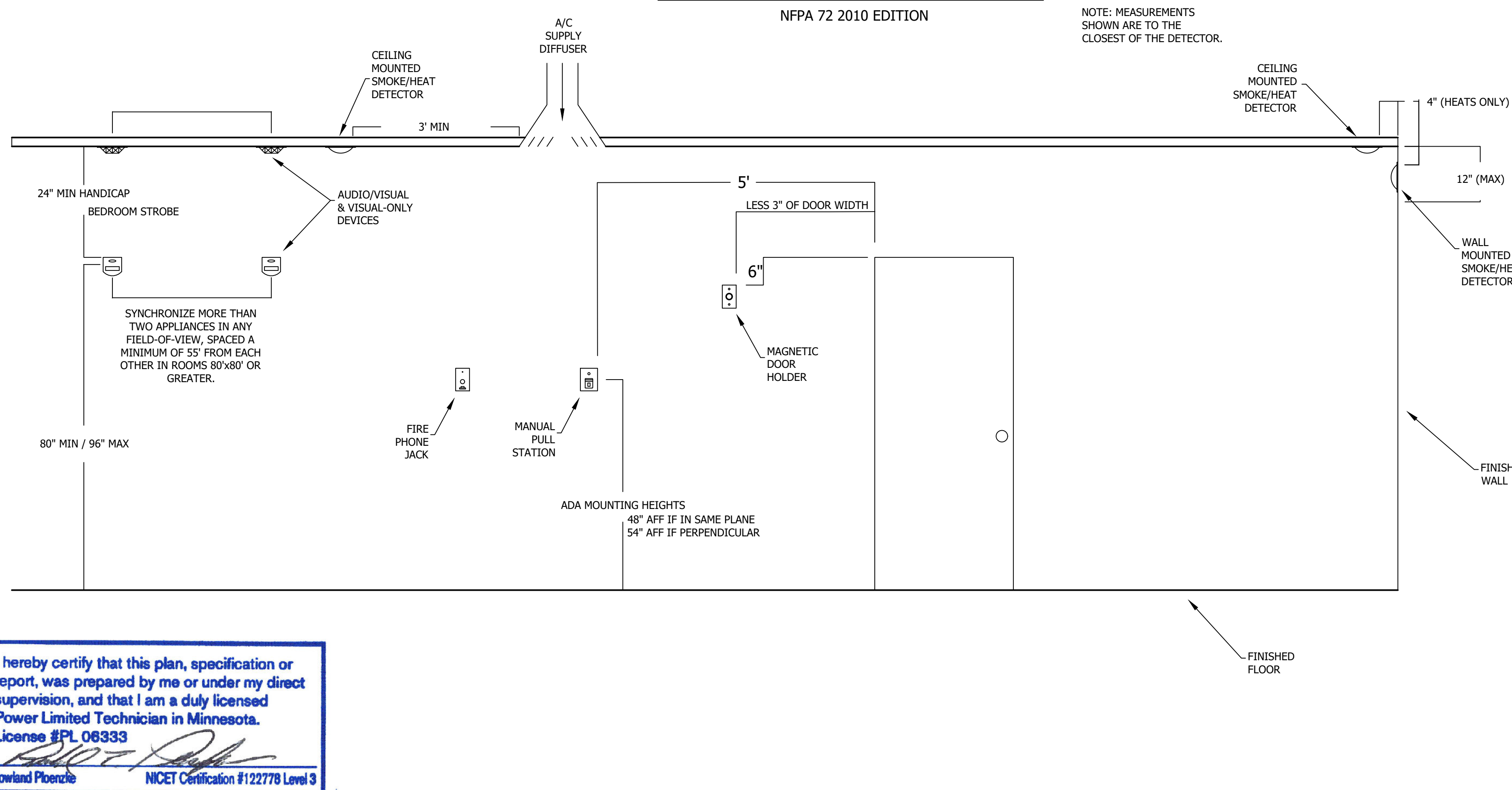


OPERATIONAL MATRIX

FIRE ALARM DEVICE MOUNTING DETAIL

NFPA 72 2010 EDITION

NOTE: MEASUREMENTS
SHOWN ARE TO THE
CLOSEST OF THE DETECTOR

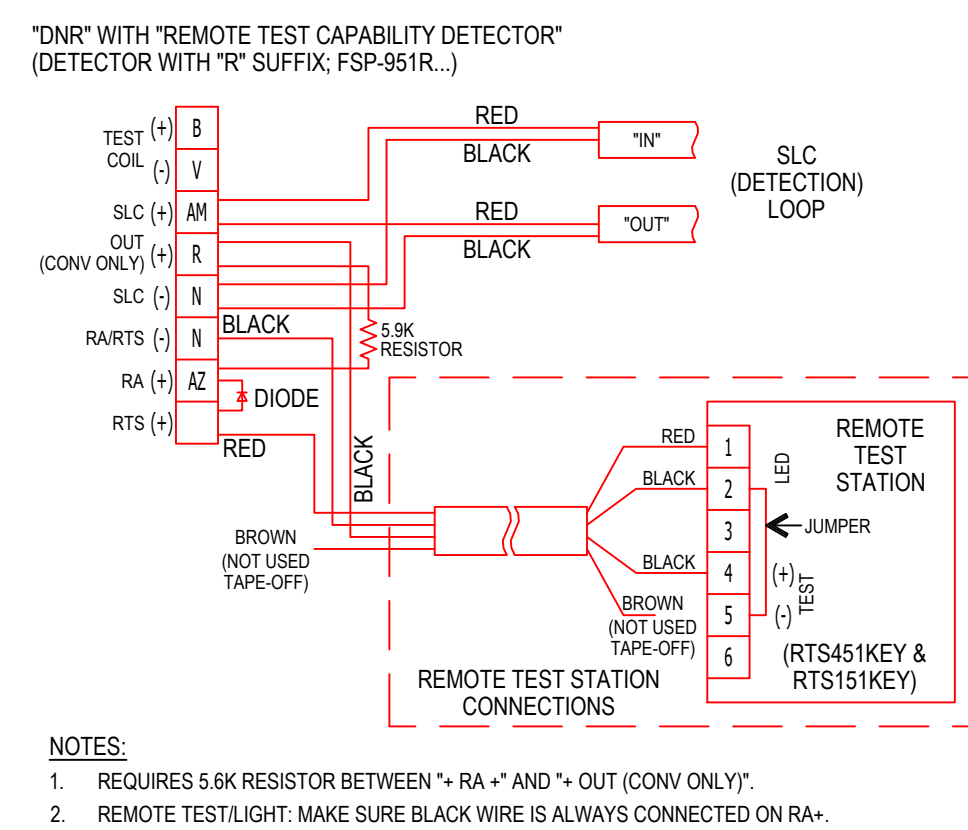


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License #PL 06333

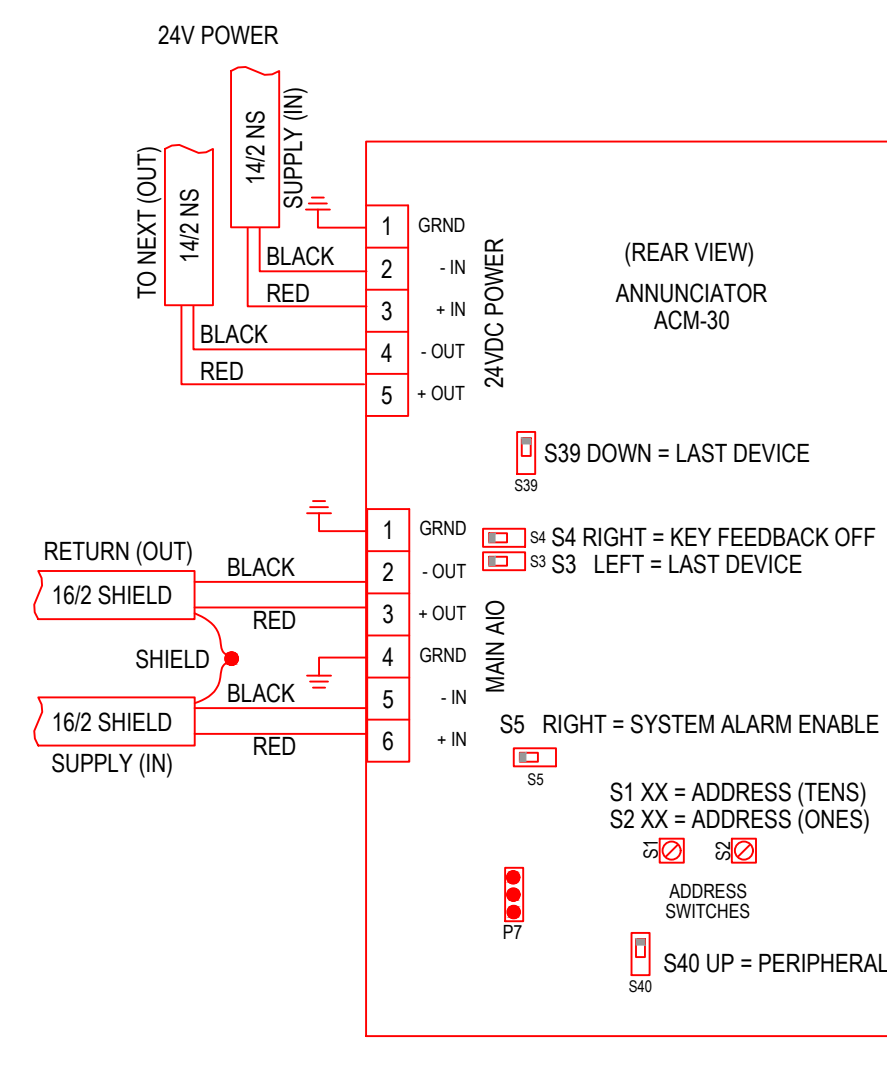

Rowland Ploerzie


NICET Certification #122778 Level 3

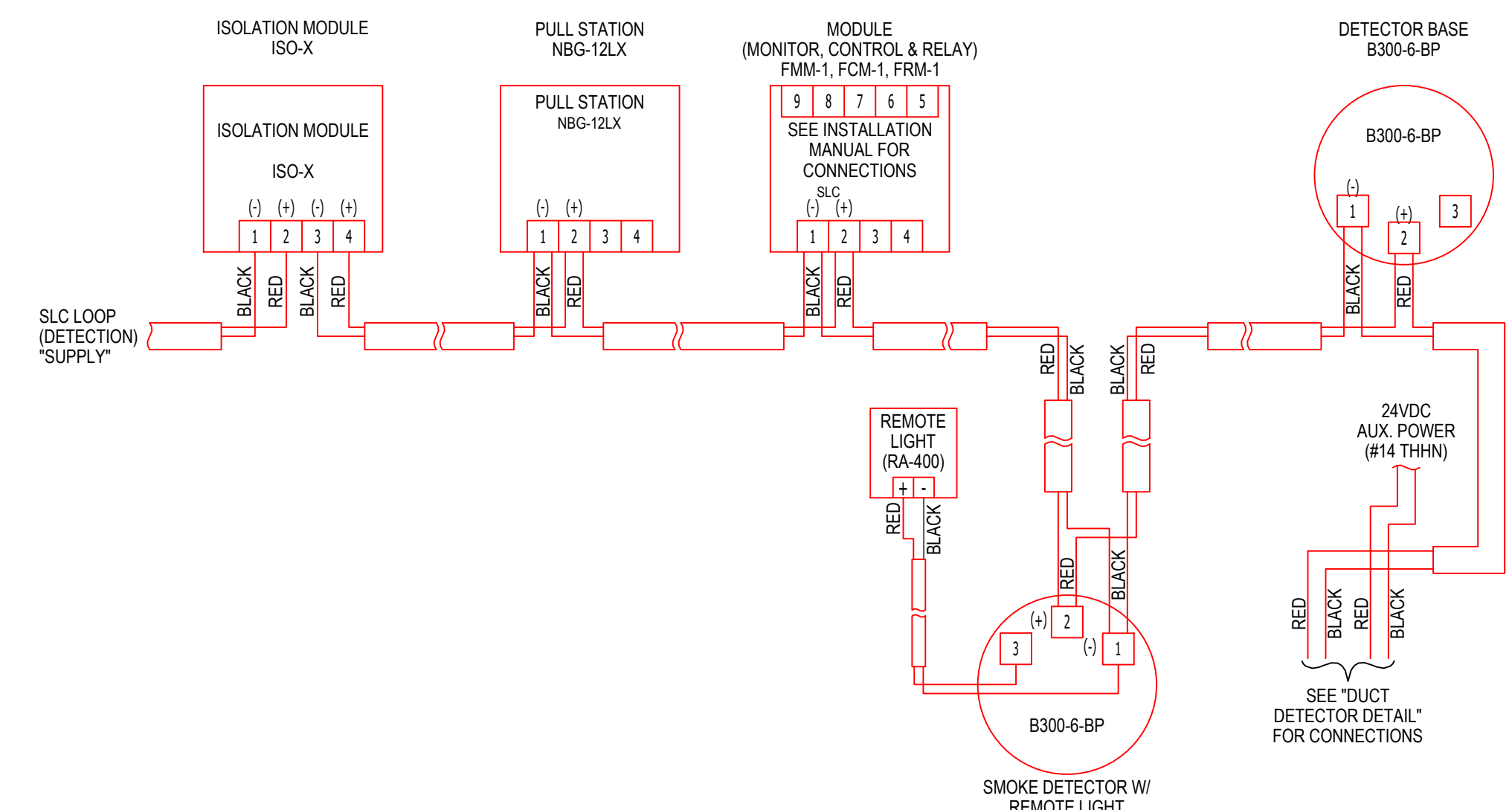
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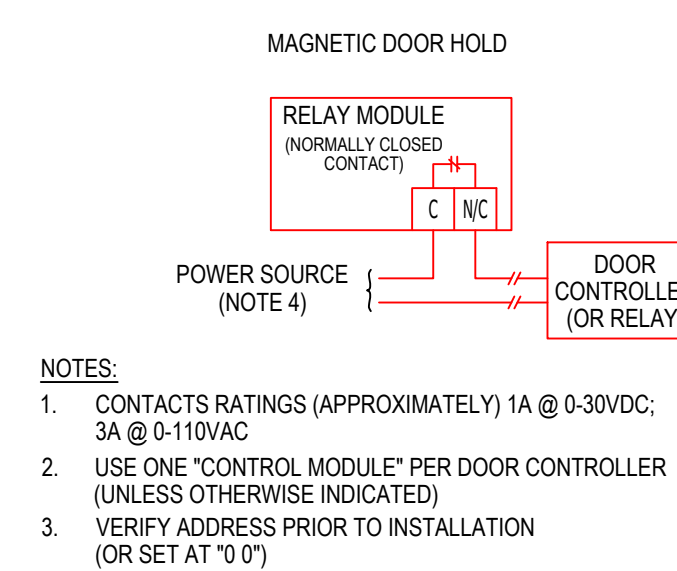
ANNUNCIATOR WIRING (TYPICAL)



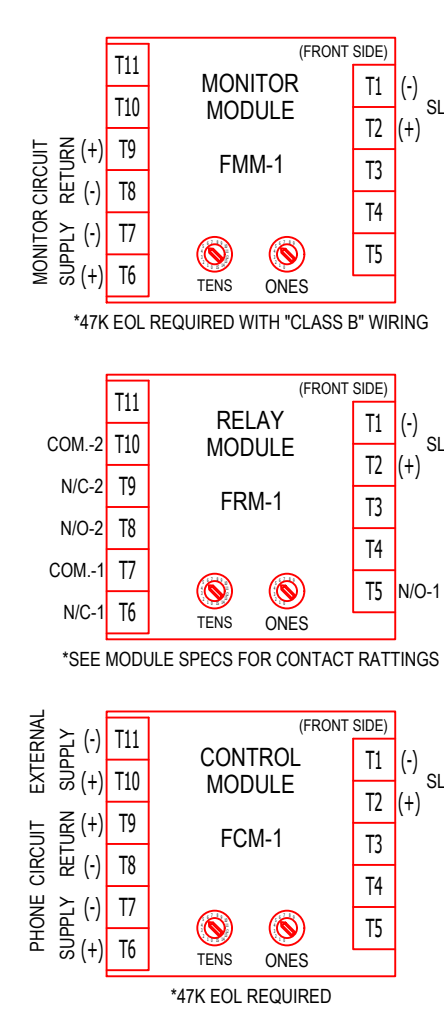
FIRE ALARM SLC WIRING DETAIL



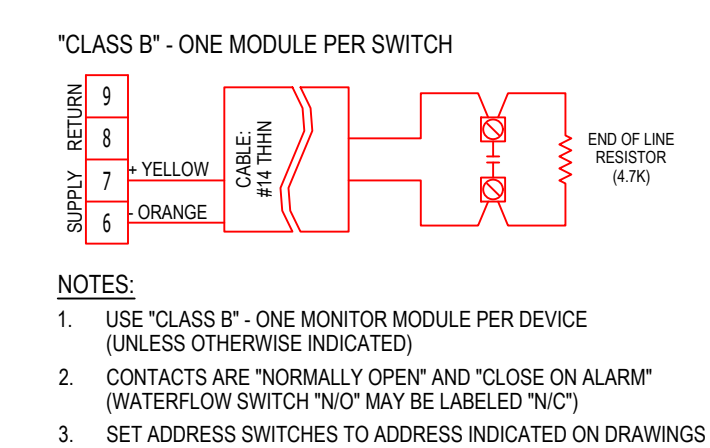
OUTPUT/CONTROL WIRING (TYPICAL)



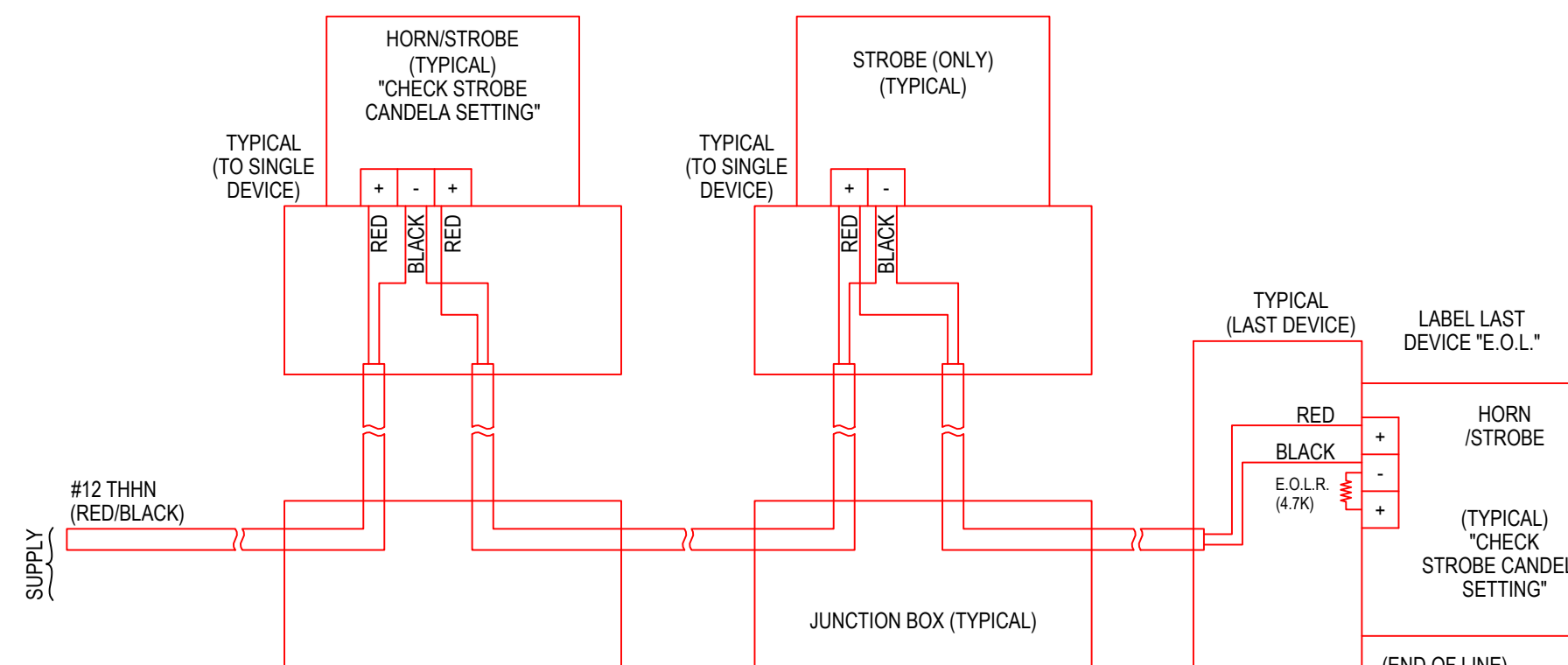
MODULES



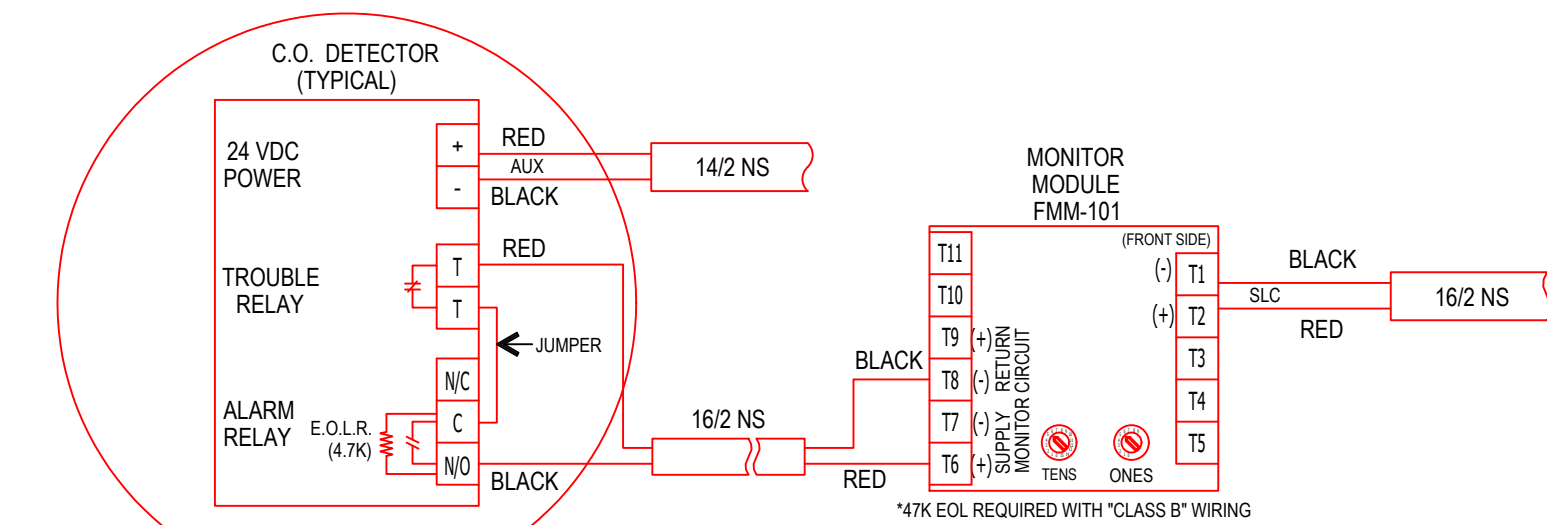
INPUT /MONITORED WIRING (TYPICAL)



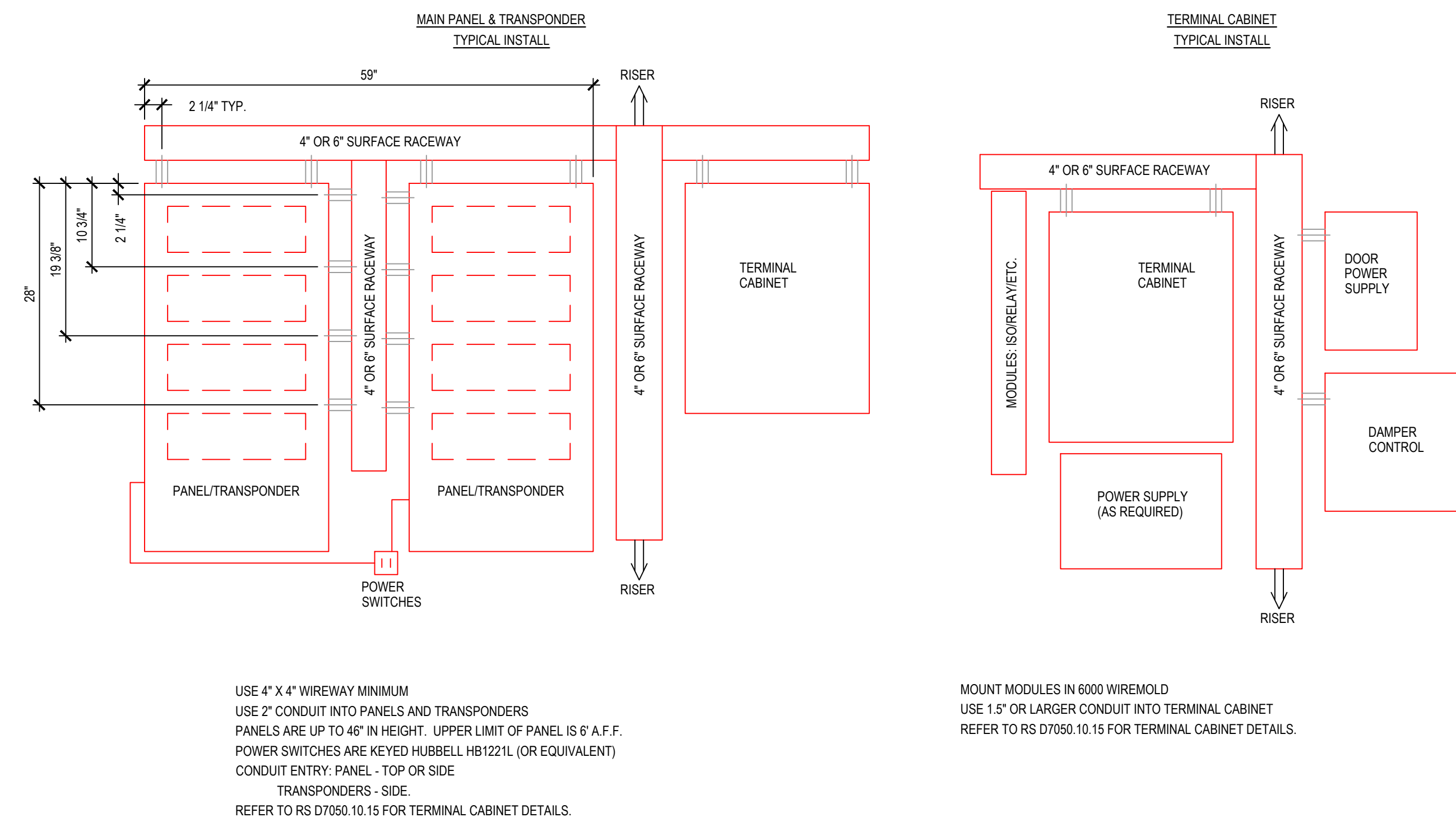
FIRE ALARM HORN/STROBE WIRING DETAIL



C.O. DETECTOR / MONITOR MODULE WIRING DETAIL



PANEL LAYOUT



CUSTOM COMMUNICATIONS
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ROCHESTER, MN 55902
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REVISIONS			
NO	REASON	JOB #	DATE
01	FA/AOR SUBMITTAL	E-78859D/E	09/03/25
02	AC SUBMITTAL	E-78859B	09/03/25
03	CCTV SUBMITTAL	E-78859C	09/03/25

4TH LANE FLATS
1309 4TH AVE LANE NE
KASSON, MN

DRAWN BY PGG	DATE 09/03/25
------------------------	-------------------------

DESIGNED BY
B MCCALED

SOLD BY
B MCCALED

SYSTEM TYPE(S)
FIRE ALARM SYSTEM

DESCRIPTION MATRIX

SCALE: AS NOTED

FA401

PANEL N1 (NFW-100X) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
PANEL COMPONENTS					STANDBY CURRENT		SECONDARY ALARM CURRENT				
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)			
QTY	PART NO.	DESCRIPTION									
1	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR			0	0	0	0			
	E120V-GT	HYBRID SURGE PROTECTION DEVICE			0	0	0	0			
	HW-AV-LTE-M	DUAL-PATH COMMUNICATOR WITH ENCLOSURE, INCLUDES ANTENNA			0.06	0.06	0.2	0.2			
	NFW-100X MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD			0.141	0.141	0.257	0.257			
	PWRMOD24	NAC POWER EXPANDER			0	0	0	0			
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
N1-1	6	2.939100	3.060900		1	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.035
N1-2					5	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE 150CD	0	0	0.189	0.9450
					8	HWL-LF	LF SOUNDER, WALL, WHITE	0	0	0.078	0.6240
N1-3					1	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.035
					9	HWL-LF	LF SOUNDER, WALL, WHITE	0	0	0.078	0.7020
N1-4					3	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.105
					1	PSN-106B	10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE	0.015	0.015	0.015	0.015
N1-AUX1					1	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR	0.015	0.015	0.04	0.04
N1-L1					5	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B	0.00075	0.00375	0.064	0.32
					6	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	0.000375	0.00225	0.005	0.03
					7	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	0.000255	0.001785	0.0065	0.0455
					9	FSP-951 WB300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY	0.0002	0.0018	0.0045	0.0405
					4	ISO-X	SLC LOOP ISOLATOR MODULE	0.0004	0.0016	0.0004	0.0016
					1	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE	0.000375	0.000375	0.0005	0.0005
								TOTAL STANDBY (A)	0.24256	TOTAL ALARM (A)	3.40
								REQUIRED STANDBY TIME (HOURS)	24		
								REQUIRED ALARM TIME (MINUTES)	5		
								SECONDARY STANDBY LOAD (A)	0.24256	24	5.82
								SECONDARY ALARM LOAD (A)	3.40	0.083	0.283
								STANDBY AND ALARM SUBTOTAL (AMP HOURS)			6.10
								DERATING FACTOR			1.20
								SECONDARY LOAD REQUIREMENTS (AMP HOURS)			7.33
								PROVIDE (2) 12V 12AH BATTERIES			
								*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.			

MODULE N1-AUX1-01 (N-ANN-80) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
PANEL COMPONENTS						STANDBY CURRENT		SECONDARY ALARM CURRENT			
						CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)		
						QTY	PART NO.	DESCRIPTION			
						1	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR	0.015 0.015 0.04 0.04		
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
								TOTAL STANDBY (A)	0.015	TOTAL ALARM (A)	0.04
								REQUIRED STANDBY TIME (HOURS)		24	
								REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)							0.015	24	0.36		
SECONDARY ALARM LOAD (A)							0.04	0.083	0.003		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)									0.363		
DERATING FACTOR									1.20		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)									0.436		
PROVIDE (2) 12V 7AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

PANEL NAC 1 (PSN-106B) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)														
PANEL COMPONENTS					STANDBY CURRENT				SECONDARY ALARM CURRENT					
					CURRENT		TOTAL (A)		CURRENT		TOTAL (A)			
					CURRENT DRAW (A)		TOTAL (A)		CURRENT DRAW (A)		TOTAL (A)			
					QTY	PART NO.	DESCRIPTION							
					1	PSN-106B	10 A POWER SUPPLY, 6 NAC CIRCUITS, BLACK ENCLOSURE	0	0	0	0			
					1	PSN-106B MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075			
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)			
NAC 1-1	N/A	6.031000			8	P2WL-LF	2-WIRE, HORN STROBE, WHITE 18SCD	0	0	0.266	2.13			
NAC 1-2					11	HWL-LF	LF SOUNDER, WALL, WHITE	0	0	0.078	0.8580			
					3	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.105			
NAC 1-3					12	HWL-LF	LF SOUNDER, WALL, WHITE	0	0	0.078	0.9360			
					1	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.035			
NAC 1-4					11	HWL-LF	LF SOUNDER, WALL, WHITE	0	0	0.078	0.8580			
					2	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.07			
NAC 1-5					12	HWL-LF	LF SOUNDER, WALL, WHITE	0	0	0.078	0.9360			
					3	P2WLED	2-WIRE, HORN STROBE, WHITE 15CD	0	0	0.035	0.105			
								TOTAL STANDBY (A)	0.075	TOTAL ALARM (A)	6.11			
							REQUIRED STANDBY TIME (HOURS)		24					
							REQUIRED ALARM TIME (MINUTES)		5					
SECONDARY STANDBY LOAD (A)							0.075			1.80				
SECONDARY ALARM LOAD (A)							6.11			0.509				
STANDBY AND ALARM SUBTOTAL (AMP HOURS)									2.31					
DERATING FACTOR									1.20					
SECONDARY LOAD REQUIREMENTS (AMP HOURS)									2.77					
PROVIDE (2) 12V 7AH BATTERIES														
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.														

POINT-TO-POINT REPORT SUMMARY																			
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED																			
SOURCE	CIRCUIT	PART NO	MAX CARD CURRENT (A)	TOTAL CARD CURRENT (A)	SPARE CARD CURRENT (A)	SPARE CARD CURRENT %	MAX. CIRCUIT CURRENT (A)	TOTAL CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT %	WIRE GAUGE	WIRE RESISTANCE (MFT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATED VOLTAGE	MIN OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DROP %
N1 (NFW-100 X)	1	NFW-100X MAIN BOARD	6	2.94	3.06	51.02 %	1.50	0.980	0.520	34.67 %	16	4.89	323	3.16	20.40	16	2.28	18.12	11.18 %
	2						1.50	0.6590	0.8410	56.07 %	16	4.89	288	2.82	20.40	16	1.33	19.07	6.52 %
	3						1.50	0.8070	0.6930	46.20 %	16	4.89	399	3.91	20.40	16	2.12	18.28	10.41 %
	AUX1						1	0.04	0.960	96.00 %	14	3.07	164	1.01	20.40	16	0.94	20.36	0.20 %
	4	3	2.13	0.8720	29.07 %	16	4.89	169	1.65	20.40	16	2.38	18.02	11.67 %					
NAC 1 (PSN-106B)	2	PSN-106B MAIN BOARD	N/A	6.03	3	0.9630	2.04	67.90 %	16	4.89	434	4.24	20.40	16	2.30	18.10	11.27 %		
	3				0.9710	2.03	67.63 %	16	4.89	329	3.22	20.40	16	2.05	18.35	10.03 %			
	4				3	0.9280	2.07	69.07 %	16	4.89	426	4.16	20.40	16	2.37	18.03	11.63 %		
	4				3	1.04	1.96	65.30 %	16	4.89	393	3.85	20.40	16	2.73	17.67	13.39 %		
CALCULATION METHODS:																			
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)																			
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)																			



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REVISIONS			
NO	REASON	JOB #	DATE
01	FA/AOR SUBMITTAL	E-78859D/E	09/03/25
02	AC SUBMITTAL	E-78859B	09/03/25
03	CCTV SUBMITTAL	E-78859C	09/03/25

4TH LANE FLATS