

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX:												
ACTION:	ANNUNCIATE AT CONTROL PANEL	TRANSMIT SIGNAL TO CENTRAL STATION MONITORING	SOUND AUDIBLE & VISUAL ALARM	CLOSE SMOKE / FIRE DAMPERS	SOUND SPRINKLER BELL	DOOR HOLDER RELEASE	ELEVATOR RECALLED TO GROUND FLOOR (PRIMARY)	ELEVATOR RECALLED TO 2nd FLOOR (SECONDARY)	ELEVATOR CAB SAFETY INDICATOR	ELEVATOR SMOKE GUARD RELEASE	AHU OR FCU SHUTDOWN	ACTIVATE ASSOCIATED UNIT SOUNDERS
ALARM SIGNAL												
MANUAL PULL STATION @ FACP	YES	YES	YES	YES		YES						YES
SMOKE DETECTOR AT FACP / FAS EQUIPMENT	YES	YES	YES	YES		YES						YES
AREA SMOKE DETECTORS	YES	YES	YES	YES		YES						YES
LEVEL 1 ELEVATOR LOBBY SMOKE DETECTOR	YES	YES	YES	YES		YES		YES	YES			YES
LEVEL 2 THRU 8 ELEVATOR LOBBY SMOKE DETECTOR	YES	YES	YES	YES		YES	YES		YES	YES		YES
ELEVATOR MACHINE ROOM SMOKE DETECTOR	YES	YES	YES	YES		YES	YES		YES			YES
WATERFLOW SWITCH ACTIVATED	YES	YES	YES	YES	YES	YES	YES					YES
SUPERVISORY SIGNAL												
FIRE PUMP BYPASS VALVE OPEN	YES	YES										
SPRINKLER / FIRE PUMP VALVE CLOSED	YES	YES										
DUCT SMOKE DETECTOR FOR FSD	YES	YES		YES								
DUCT SMOKE DETECTOR FOR SUPPLY FAN	YES	YES									YES	
COMMUNICATOR FAILURE MONITOR MODULE	YES	YES										
UNIT SMOKE DETECTOR ALARM	YES	YES										YES
ERRC (BY OTHERS) LOSS OF AC POWER	YES	YES										
ERRC (BY OTHERS) BATTERY CHARGER FAILURE	YES	YES										
ERRC (BY OTHERS) DONOR ANTENNA(S) MALFUNCTION	YES	YES										
ERRC (BY OTHERS) RF-EMITTING DEVICE FAILURE	YES	YES										
ERRC (BY OTHERS) LOW BATTERY	YES	YES										
ERRC (BY OTHERS) CRITICAL SYSTEM COMPONENTS FAILURE	YES	YES										
ERRC (BY OTHERS) COMMUNICATION LINK TO FIRE ALARM SYSTEM	YES	YES										
FIRE PUMP CONTROLLER SWITCH IN OFF/MANUAL POSITION	YES	YES										
FIRE PUMP TROUBLE	YES	YES										
FIRE PUMP MOTOR RUNNING	YES	YES										
TROUBLE SIGNAL												
SLC LOOP OPEN	YES	YES										
SLC LOOP SHORT	YES	YES										
SLC LOOP EARTH GROUND	YES	YES										
NOTIFICATION CIRCUIT OPEN	YES	YES										
NOTIFICATION CIRCUIT SHORT	YES	YES										
NOTIFICATION CIRCUIT EARTH GROUND	YES	YES										
COMMUNICATOR FAULT	YES	YES										
LOW BATTERY	YES	YES										
AC FAIL	YES	YES				YES	YES					

FIRE ALARM SYMBOL LEGEND: FIRE ALARM CONTROL PANEL (FACP)						
SYM	QTY	DESCRIPTION	MANUF.	PART NO.	CSFM	BACKBOX
FACP	1	BASE CONTROL PANEL	KIDDE	VS4-RD	7165-1657-0244	INCLUDED
	1	SLC EXPANSION MODULE	KIDDE	V-SLC-1	7165-1657-0244	
	1	RS232 SERIAL INTERFACE MODULE	KIDDE	SA232	7165-1657-0244	
	1	DIALER MODULE	KIDDE	SA-DACT	7165-1657-0244	
	2	12V, 18AH RECHARGEABLE LEAD-ACID BATTERIES	YUASA	NP18-12	N/A	

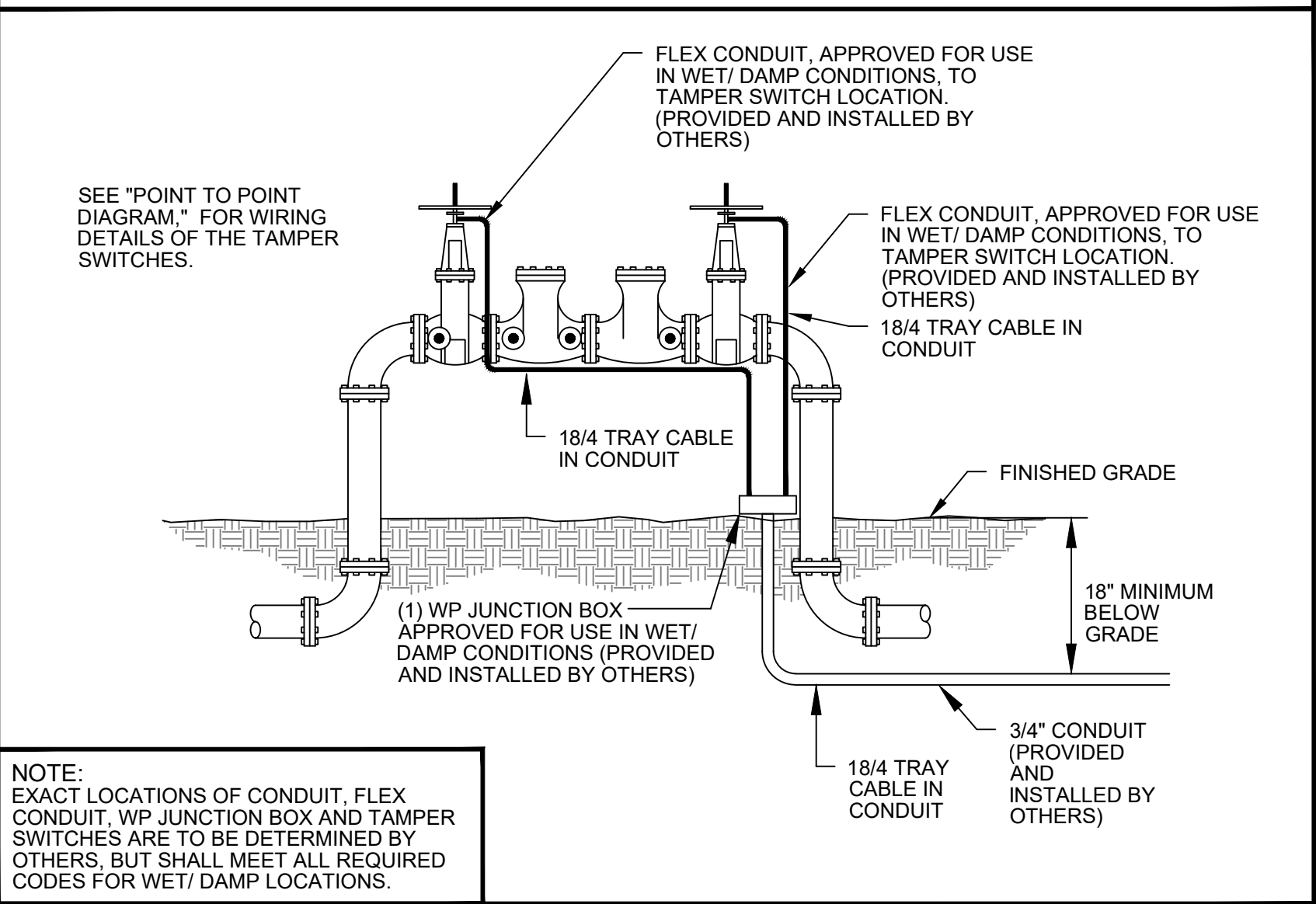
FIRE ALARM SYMBOL LEGEND: REMOTE ANNUNCIATOR						
SYM	QTY	DESCRIPTION	MANUF.	PART NO.	CSFM	BACKBOX
PSA	1	LCD ANNUNCIATOR	KIDDE	RLCD-C	7120-1657-0254	4S BOX

FIRE ALARM SYMBOL LEGEND:						
SYM	QTY	DESCRIPTION	MANUF.	PART NO.	CSFM	BACKBOX
FAC	1	FIRE ALARM CELLULAR COMM. - DUAL PATH	TELGUARD	TG7-FE	7300-1402-0503	INCLUDED
	1	12V, 7AH RECHARGEABLE LEAD-ACID BATTERIES	YUASA	NP7-12	--	--
	1	TRANSFORMER COVER FOR TG-7FE TRANSFRMR	HONEYWELL	HPTCOVER	--	--
BPS	8	6.5 AMP; BOOSTER POWER SUPPLY PANEL	KIDDE	MIRBPS6A	7300-1483-0174	--
	12	12V, 7AH RECHARGEABLE LEAD-ACID BATTERIES	YUASA	NP7-12	--	--
D	4	12V, 12AH RECHARGEABLE LEAD-ACID BATTERIES	YUASA	NP12-12	--	--
	21	INTELLIGENT SMOKE DETECTOR, PHOTO-ELECTRIC DETECTOR BASE ASSEMBLY	KIDDE	KI-OSD	7272-1657-0511	4X4 w/ 3-0
D	1	INTELLIGENT HEAT DETECTOR, RATE-OF-RISE DETECTOR BASE ASSEMBLY	KIDDE	KI-SBD	7300-1657-0120	4X4 w/ 3-0
	1	INTELLIGENT HEAT DETECTOR, RATE-OF-RISE DETECTOR BASE ASSEMBLY	KIDDE	KI-HRD	7270-1657-0333	4X4 w/ 3-0
D	126	INTELLIGENT SMOKE DETECTOR, PHOTO-ELECTRIC SOUNDER BASE	KIDDE	KI-OSD	7272-1657-0511	4X4 w/ 3-0
	1	INTELLIGENT SMOKE DETECTOR, PHOTO-ELECTRIC SOUNDER BASE	KIDDE	KI-ABLT	7300-1657-0322	4X4 w/ 3-0
DL	1	DUCT SMOKE DETECTOR	KIDDE	GSA-SD	3242-1483-0173	INCLUDED
P	1	PULL STATION	KIDDE	GSA-270	7150-1483-0139	4X4 w/ 1-GANG
APM	19	SINGLE-INPUT MODULE	KIDDE	GSA-CT1	7300-1483-0115	4X4 w/ 1-GANG
DASH	14	DUAL-INPUT MODULE	KIDDE	GSA-CT2	7300-1483-0115	4 SQ. w/ 1-GANG
CR	13	RELAY MODULE	KIDDE	GSA-CR	7300-1483-0115	4x4 w/ 1-GANG
CCIS	30	SINGLE-INPUT SIGNAL CONTROL MODULE	KIDDE	GSA-CC1S	7300-1483-0115	4X4 w/ 2-GANG
ASHI	2	ENCAPSULATED MULTI-VOLTAGE CONTROL RELAY	KIDDE	PAM1	7300-1004-0101	4X4
VC	41	MULTI-CANDELA HORN/STROBE (CEILING)	KIDDE	EGCAVWF	7125-1657-0515	4X4 & GP10
W	1	MULTI-CANDELA HORN/STROBE (WALL)	KIDDE	EG4AVWF	7125-1657-0504	
XC	1	MULTI-CANDELA STROBE (CEILING)	KIDDE	EGCVWF	7125-1657-0510	
XC 177cd	16	177cd MULTI-CANDELA STROBE (CEILING)	KIDDE	EGCF-VMH	7125-1657-0219	4X4
XC 30cd	12	15cd/30cd MULTI-CANDELA STROBE (WP)(CEILING)	KIDDE	WGVWF	7125-1657-0521	4X4 & WGVMA
XC 110cd	1	110 CANDELA HORN/STROBE (WP)(WALL)	KIDDE	757-8A-TW	7125-1657-0189	INI-WB
D	14	DOOR HOLDER	KIDDE	1504-AQN5	3550-1501-0137	4x4 w/ 1-GANG
BPS	1	DOOR HOLDER POWER SUPPLY	ALTRONIX	ALTV244ULCB	--	INCLUDED
	2	12V, 7AH RECHARGEABLE LEAD-ACID BATTERIES	YUASA	NP7-12	--	--
FDB	1	FIRE ALARM DOCUMENT CABINET ACE-11	SPACE AGE	SSU00685	7300-0553-0110	--
D	2	CONVENTIONAL DUCT SMOKE DETECTOR (BY OTHERS)	MUST BE CSFM LISTED			INCLUDED
SEE PLANS		ADA PRE-WIRE BOX	--			4X4
SEE PLANS		FIRE SMOKE DAMPER (BY OTHERS)	MUST BE CSFM LISTED			--
SEE PLANS		SPRINKLER FLOW SWITCH (BY OTHERS)	MUST BE CSFM LISTED			WP SINGLE GANG
SEE PLANS		TAMPER SWITCH (BY OTHERS)	MUST BE CSFM LISTED			WP SINGLE GANG
SEE PLANS		BACKFLOW TAMPER SWITCH (BY OTHERS)	MUST BE CSFM LISTED			WP SINGLE GANG

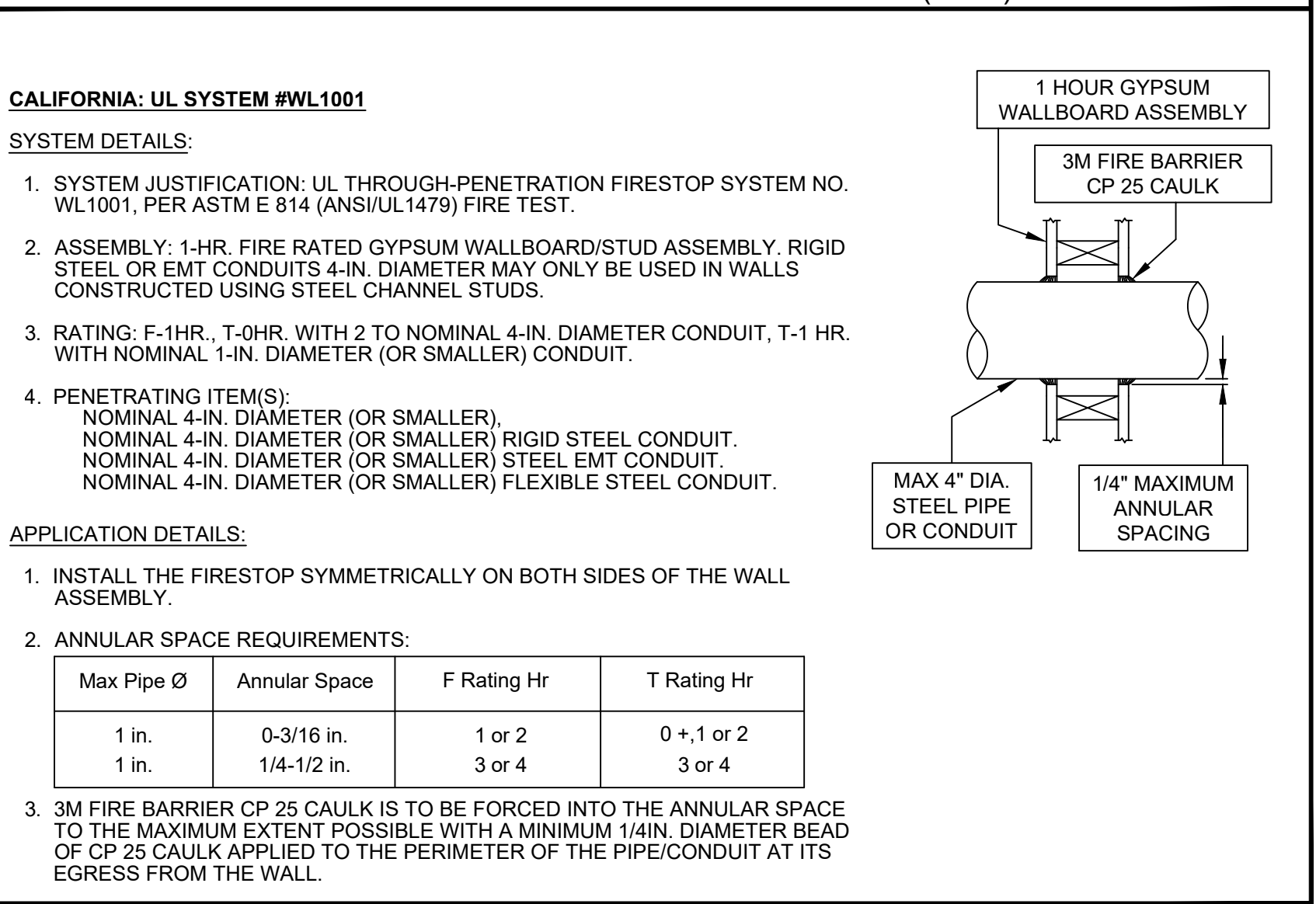
WIRE LEGEND:		
PURPOSE	WIRE SIZE / TYPE	WIRING CLASS
SLC LOOP (INITIATING DEVICES)	18/4 FPLR	CLASS B
NAC CIRCUITS (NOTIFICATION DEVICES)	14/2 FPLR	CLASS B
DOOR HOLDER POWER	14/2 FPLR	CLASS D
UNDERGROUND CIRCUITS**	18/4 AWG THWN	--
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** CONDUIT SHALL BE A MINIMUM SIZE OF 3/4"		

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.17, 760.3 AND CHAPTER 3

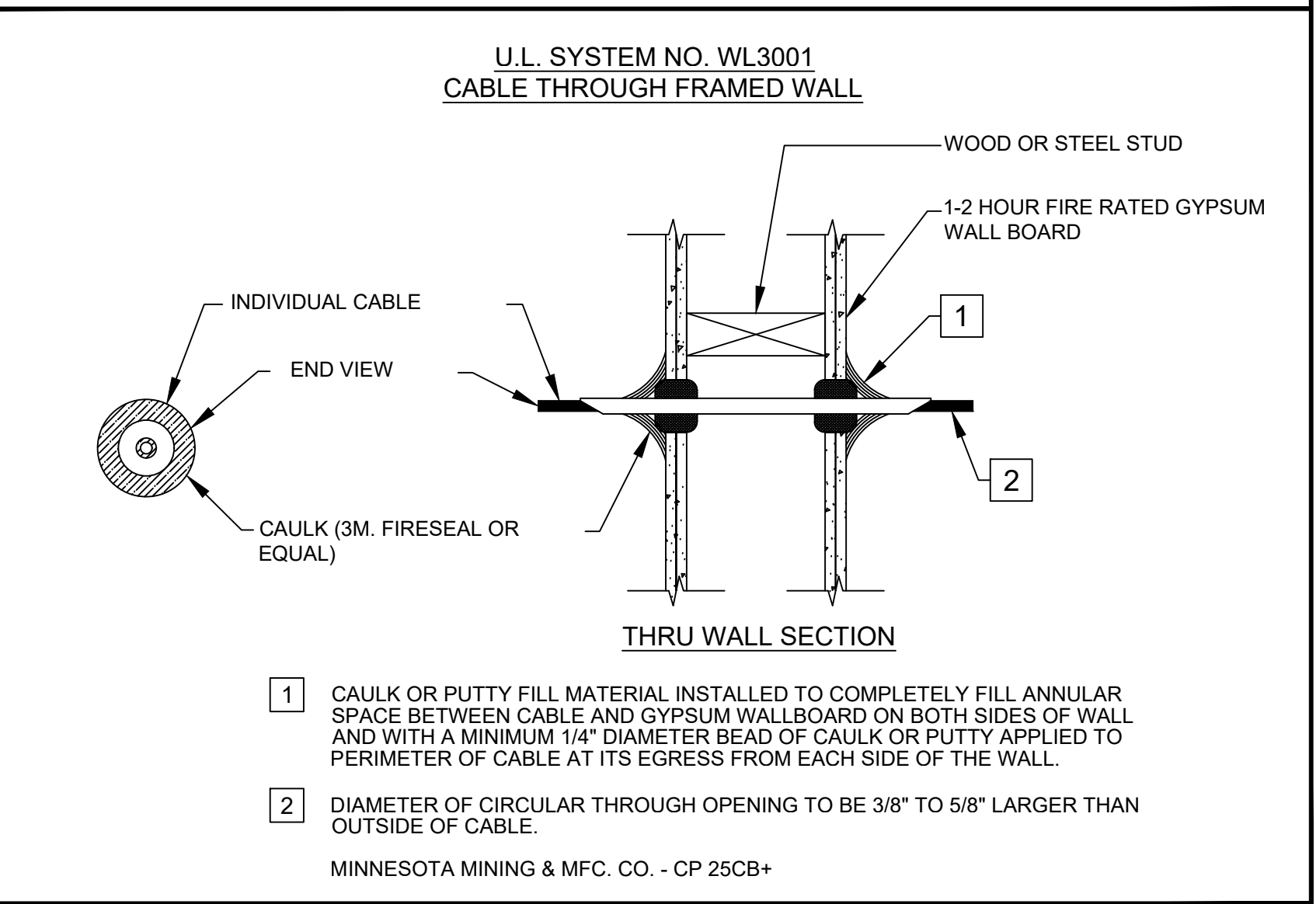
BACKFLOW PREVENTER DETAIL:



FIRESTOP THROUGH PENETRATION GYPSUM WALLBOARD (1 HR) DETAIL:

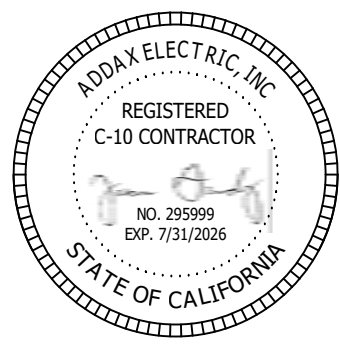


FIRESTOP PENETRATION CABLE THROUGH FRAMED WALL DETAIL:



SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
SAN DIEGO, CA 92104

Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999 C-10
SBE & DBE #1745359
Alarm Licence ACO 7310



ADDAX
ELECTRIC INC.
Fire & Integration

REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	
DESIGNER: FUEGO ENGINEERING & DESIGN P.O. BOX 806920 PORT SAINT LUKE, FL 34986 CARLOS OLIVERAS (619) 610-8637, NCCET III #84063 carlos.oliveras@fuegoeng.com FUEGO ENGINEERING & DESIGN			
DESIGN: CO		DRAWN:	
CHECKED: JG		JOB NO:	
DATE: 06-02-2025		PLOT:	
SHEET TITLE:			
DEVICE / WIRE LEGEND			
SAINT LUKE'S MULTIFAMILY			
FIRE ALARM SYSTEM			
SCALE:		N/A	
SHEET NO.			
FA-0.1			

V54 FACP - (5 MINTUES IN ALARM, 24HRS STANDBY)						KIDDE	
A	B	C	D	E	F		
INTERNAL POWER SUPPLY COMPONENTS							
Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current (B x D)	Total Alarm Current (B x E)			
V54 BASE PANEL	1	0.17200A	0.172000A	0.26700A	0.267000A		
V-5LUG-1 SINGLE LOOP CONTROLLER CARD	1	0.045000A	0.045000A	0.07000A	0.070000A		
SALACT	1	0.09900A	0.099000A	0.11000A	0.110000A		
REMOTE ANNUNCIATOR							
RLED-C-ANNUNCIATOR	1	0.09900A	0.099000A	0.11000A	0.110000A		
FIELD DEVICES							
K5-05D PHOTOELECTRIC DET.	147	0.000033A	0.004704A	0.000045A	0.006615A		
ISA-5D, INCT SMOKE DETECTOR	1	0.000045A	0.000045A	0.000045A	0.000045A		
K5-HRD HEAT DET.	1	0.000033A	0.000033A	0.000033A	0.000033A		
ISA-M2B PULLSTATION	1	0.000045A	0.000045A	0.000045A	0.000045A		
ISA-CT1 SINGLE INPUT MOD.	19	0.000023A	0.000475A	0.000040A	0.000760A		
ISA-CT2 DUAL-INPUT MODULE	14	0.000395A	0.005534A	0.000660A	0.009320A		
ISA-CA CONTROL RELAY MODULE	13	0.000073A	0.000975A	0.000073A	0.000975A		
ISA-CC15 SYNCHRONIZATION OUTPUT MODULE	30	0.000023A	0.00068A	0.000020A	0.00030A		
		Total Standby Current =	0.434A	Total Alarm Current =	0.490A		

TOTAL STANDBY CALCULATIONS				TOTAL STANBY CALCUL	
16	Total standby current.			0.434	
17	Multiply by 24 or 60 for standby hours needed.			24H	
18	Total standby AH (Amp Hours)			10.4042 AH	
ALARM CURRENT CALCULATIONS				TOTAL ALARM CURRENT CALCUL	
19	Total alarm current.			0.490	
20	Multiply by 0.0033 for 5 min or 0.25 for 15 minutes of alarm			0.1225 AH	
21	Total alarm current.			0.25%	
BATTERY BACKUP REQUIREMENTS				10.5267 AH	
22	Sub total, add line 18+21				
23	Multiply by 1.2 for 25% Battery Derating Factor			13.1584 AH	
24	Total AH (Amp Hours)			25%	
				(2) BATTERY SUPPLIED = 18 AMP	

CELLULAR COMMUNICATION PANEL TG-TFE BATTERY CALCULATION									
PART#	DESCRIPTION	QTY	STANDBY CURRENT DRAW PER ITEM (AMPS)	TOTAL STANDBY CURRENT DRAW PER ITEM (AMPS)	QTY	ALARM CURRENT DRAW PER ITEM (AMPS)	TOTAL ALARM CURRENT DRAW PER ITEM (AMPS)		
TG-TFE	Cellular Panel	1	0.018	0.018	1	0.110	0.110		
				TOTAL SYSTEM STANDBY CURRENT (AMPS)			TOTAL SYSTEM ALARM CURRENT (AMPS)		0.1100
									0.1100
	REQUIRED STANDBY TIME (HRS)	TOTAL SYSTEM STANDBY CURRENT (AMPS)	REQUIRED STANDBY CAPACITY (AMPS)	REQUIRED STANDBY CAPACITY (HOURS)	TOTAL SYSTEM ALARM CURRENT (AMPS)	REQUIRED STANDBY CAPACITY (AMPS)	REQUIRED STANDBY CAPACITY (HOURS)		
	24	X	0.018	=	6.420	X	0.110	=	0.0081
	REQUIRED STANDBY CAPACITY (AMPS)	REQUIRED ALARM CAPACITY (AMPS)	TOTAL CAPACITY (AMPS)	TOTAL CAPACITY (HOURS)	BATTERY DERATING FACTOR	ADJUSTED CAPACITY (AMPS)	ADJUSTED CAPACITY (HOURS)		
	2.43	X	0.081	=	2.411	X	25%	=	0.551
									BATTERY CAPACITY = (15) 7 AMP BATTERY

KIDDE NOTIFICATION APPLIANCE CURRENT DRAW LIST									
Combiing Rating	Strobe	Watt	Strobe	Strobe	Strobe	Strobe	Strobe	Strobe	Strobe
CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	0.0001							
WALL/CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	0.0001							
WALL WEATHER-PROOF STROBE 115d	0.0001	0.0001							
WALL WEATHER-PROOF STROBE 115d	0.0001	0.0001							
WALL WEATHER-PROOF STROBE 115d	0.0001	0.0001							
WALL WEATHER-PROOF STROBE 115d	0.0001	0.0001							
CEILING STROBE 177d	0.0001	0.0001							
WALL/CEILING LED STROBE WEATHER-PROOF STROBE	0.0001	0.0001							
LF LOW FREQ SOUNDER BASE	0.0001	0.0001							

A x L (1/1000) x R x Z)	
As CURRENT REQUIRED BY THE DEVICE	
Lx LENGTH DISTANCE FROM DEVICE TO DEVICE	
R = RESISTANCE OF WIRE PER 1000 FT.	
Z = VOLTAGE DROP BASE ON PANELS WORST CASE VOLTAGE OF 20.4 VDC	

MIRBP56A BPS#1 (5 MINUTES IN ALARM, 24HRS STANDBY)						KIDDE	
A	B	C	D	E	F		
INTERNAL POWER SUPPLY COMPONENTS							
Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current (B x D)	Total Alarm Current (B x E)			
MAIN POWER SUPPLY BOARD	1	0.070A	0.070A	0.270A	0.270A		
SOUNDER BASE LOW FREQ K5-ABT	3	0.000000A	0.010A	0.000	0.000A		
		Total Standby Current =	0.080A	Total Alarm Current =	0.270A		

NOTIFICATION/APPLIANCES						CIRCUIT # AND QTY	
DEVICE CURRENT DRAW	N5	N6	N7	N8			
CEILING LED STROBE 150d, 30d, 75d, 115d OR WALL/CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	2	2	1	0		
CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	3	4	0	0		
WALL LED STROBE 150d, 30d, 75d, 115d	0.0001	0	2	0	0		
WALL WEATHER-PROOF STROBE 115d	0.0001	1	0	0	0		
CEILING STROBE 177d	0.0001	0	0	1	0		
SOUNDER BASE LOW FREQ K5-ABT	0.0001	0	0	0	3		
N/C CXT CURRENT DRAW =	0.470A	0.410A	0.377A	0.425A			1.686A

TOTAL STANDBY CALCULATIONS				TOTAL STANBY CALCUL	
16	Total standby current.			0.088	
17	Multiply by 24 or 60 for standby hours needed.			24H	
18	Total standby AH (Amp Hours)			2.1120 AH	
ALARM CURRENT CALCULATIONS				TOTAL ALARM CURRENT CALCUL	
19	Total alarm current.			0.360	
20	Multiply by 0.0033 for 5 min or 0.25 for 15 minutes of alarm			0.0933	
21	Total alarm current.			0.1629 AH	
BATTERY BACKUP REQUIREMENTS				2.770 AH	
22	Sub total, add line 18+21				
23	Multiply by 1.25 for 25% Battery Derating Factor			25%	
24	Total AH (Amp Hours)			2.8437 AH	
				(2) BATTERY SUPPLIED = 7 AMP	

MIRBP56A BPS#3 (5 MINUTES IN ALARM, 24HRS STANDBY)						KIDDE	
A	B	C	D	E	F		
INTERNAL POWER SUPPLY COMPONENTS							
Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current (B x D)	Total Alarm Current (B x E)			
MAIN POWER SUPPLY BOARD	1	0.070A	0.070A	0.270A	0.270A		
SOUNDER BASE LOW FREQ K5-ABT	18	0.000000A	0.108A	0.000	0.000A		
		Total Standby Current =	0.178A	Total Alarm Current =	0.270A		

NOTIFICATION/APPLIANCES						CIRCUIT # AND QTY	
DEVICE CURRENT DRAW	N3	N4	N5	N6			
CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	5	0	0	0		
CEILING LED STROBE 150d, 30d, 75d, 115d OR WALL/CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	0	1	0	0		
WALL WEATHER-PROOF STROBE 115d	0.0001	0	0	0	0		
CEILING STROBE 177d	0.0001	0	2	0	0		
SOUNDER BASE LOW FREQ K5-ABT	0.0001	0	0	6	12		
N/C CXT CURRENT DRAW =	0.300A	0.719A	0.858A	1.716A			3.593A

TOTAL STANDBY CALCULATIONS				TOTAL STANBY CALCUL	
16	Total standby current.			0.178	
17	Multiply by 24 or 60 for standby hours needed.			24H	
18	Total standby AH (Amp Hours)			4.2720 AH	
ALARM CURRENT CALCULATIONS				TOTAL ALARM CURRENT CALCUL	
19	Total alarm current.			3.863	
20	Multiply by 0.0033 for 5 min or 0.25 for 15 minutes of alarm			0.0933	
21	Total alarm current.			0.3218 AH	
BATTERY BACKUP REQUIREMENTS				4.5938 AH	
22	Sub total, add line 18+21				
23	Multiply by 1.25 for 25% Battery Derating Factor			25%	
24	Total AH (Amp Hours)			5.7422 AH	
				(2) BATTERY SUPPLIED = 7 AMP	

MIRBP56A BPS#4 (5 MINUTES IN ALARM, 24HRS STANDBY)						KIDDE	
A	B	C	D	E	F		
INTERNAL POWER SUPPLY COMPONENTS							
Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current (B x D)	Total Alarm Current (B x E)			
MAIN POWER SUPPLY BOARD	1	0.070A	0.070A	0.270A	0.270A		
		Total Standby Current =	0.070A	Total Alarm Current =	0.270A		

NOTIFICATION/APPLIANCES						CIRCUIT # AND QTY	
DEVICE CURRENT DRAW	N7	N8	N9	N0			
CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	10	0	0	0		
CEILING LED STROBE 150d, 30d, 75d, 115d OR WALL/CEILING LED STROBE 150d, 30d, 75d, 115d	0.0001	0	1	1	1		
CEILING STROBE 177d	0.0001	0	2	1	1		
N/C CXT CURRENT DRAW =	0.600A	0.719A	0.377A	0.377A			2.073A

TOTAL STANDBY CALCULATIONS				TOTAL STANBY CALCUL	
16	Total standby current.			0.670	
17	Multiply by 24 or 60 for standby hours needed.			24H	
18	Total standby AH (Amp Hours)			1.6080 AH	
ALARM CURRENT CALCULATIONS				TOTAL ALARM CURRENT CALCUL	
19	Total alarm current.			2.343	
20	Multiply by 0.0033 for 5 min or 0.25 for 15 minutes of alarm			0.0633	
21	Total alarm current.			0.1952 AH	
BATTERY BACKUP REQUIREMENTS				1.8752 AH	
22	Sub total, add line 18+21				
23	Multiply by 1.25 for 25% Battery Derating Factor			25%	
24	Total AH (Amp Hours)			2.3440 AH	
				(2) BATTERY SUPPLIED = 7 AMP	

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N5-01	0.000A	20'	21'	0.000A	0.000V	0.000A	0.000V	1.4310%
N5-02	0.000A	4'	4'	0.000A	0.000V	0.000A	0.000V	
N5-03	0.000A	9'	10'	0.000A	0.000V	0.000A	0.000V	
N5-04	0.000A	50'	51'	0.000A	0.000V	0.000A	0.000V	
N5-05	0.000A	20'	21'	0.000A	0.000V	0.000A	0.000V	
N5-06	0.000A	11'	12'	0.000A	0.000V	0.000A	0.000V	
								N.A.C #5 HORN STROBE CIRCUIT

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N6-01	0.000A	40'	41'	0.000A	0.000V	0.000A	0.000V	
N6-02	0.000A	10'	11'	0.000A	0.000V	0.000A	0.000V	
N6-03	0.000A	16'	17'	0.000A	0.000V	0.000A	0.000V	
N6-04	0.000A	11'	12'	0.000A	0.000V	0.000A	0.000V	
N6-05	0.000A	30'	31'	0.000A	0.000V	0.000A	0.000V	
N6-06	0.000A	29'	30'	0.000A	0.000V	0.000A	0.000V	
N6-07	0.000A	42'	43'	0.000A	0.000V	0.000A	0.000V	
N6-08	0.000A	14'	15'	0.000A	0.000V	0.000A	0.000V	
								N.A.C #6 HORN STROBE CIRCUIT

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N7-01	0.000A	70'	71'	0.000A	0.000V	0.000A	0.000V	0.8200%
N7-02	0.000A	12'	13'	0.000A	0.000V	0.000A	0.000V	
								N.A.C #7 STROBE CIRCUIT

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N8-01	0.143A	40'	41'	0.429A	0.108V	0.429A	0.150V	0.7343%
N8-02	0.143A	15'	16'	0.286A	0.028V			
N8-03	0.143A	14'	15'	0.143A	0.013V			
N.A.C #8 SOUNDER BASE CIRCUIT								

MIRBSP6A BPS#6 (5 MINUTES IN ALARM, 24HRS STANDBY)					
A	B	C	D	E	F
INTERNAL POWER SUPPLY COMPONENTS	Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current	Total Alarm Current (E x F)
MAIN POWER SUPPLY BOARD	1	0.070A	0.070A	0.270A	0.270A
		Total Standby Current =	0.070A	Total Alarm Current =	0.270A
NOTIFICATION APPLIANCES					
DEVICE CURRENT DRAW	CIRCUIT # AND QTY				
	N5	N6	N7	N8	
CEILING LED HORN-STROBE 150d, 300d, 750d, 1150d	0.060A	10	0	0	0
CEILING LED STROBE 150d, 300d, 750d, 1150d OR WALL/CEILING 150d, 300d WEATHER PROOF STROBE	0.070A	0	1	1	1
CEILING STROBE 1770d	0.342A	0	2	3	1
	NAC CKT CURRENT DRAW =	0.600A	0.718A	1.061A	0.377A
				TOTAL NAC CKT CURRENT DRAW =	2.757A
TOTAL STANDBY CALCULATIONS					
16 Total standby current				TOTAL STANBY CALCU	0.070
17 Multiply by 24 or 60 for standby hours needed.				24H	
18 Total standby AH (Amp Hours)				1.6800 AH	
ALARM CURRENT CALCULATIONS					
19 Total alarm current				0.0833	
20 Multiply by 0.0833 for 5 min or 0.25 for 15 minutes of alarm				0.0033 AH	
21 Total alarm current				0.0033 AH	
BATTERY BACKUP REQUIREMENTS					
22 Sub total, add line 18+21				1.6933 AH	
23 Multiply by 1.25 for 25% Battery Derating Factor				2.1166 AH	
24 Total AH (Amp Hours)				2.1166 AH	
(2) BATTERY SUPPLIED = 7 AMP					

MIRBSP6A BPS#6 (5 MINUTES IN ALARM, 24HRS STANDBY)					
A	B	C	D	E	F
INTERNAL POWER SUPPLY COMPONENTS	Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current	Total Alarm Current (E x F)
MAIN POWER SUPPLY BOARD	1	0.070A	0.070A	0.270A	0.270A
SOUNDER BASE LOW FREQ V-ABLT	14	0.000000A	0.0000A	0.000000A	0.000A
		Total Standby Current =	0.070A	Total Alarm Current =	0.270A
NOTIFICATION APPLIANCES					
DEVICE CURRENT DRAW	CIRCUIT # AND QTY				
	N3	N4	N5	N6	
WALL LED HORN-STROBE 150d, 300d, 750d, 1150d	0.050A	1	0	0	0
CEILING LED HORN-STROBE 150d, 300d, 750d, 1150d	0.060A	0	2	0	0
CEILING LED STROBE 150d, 300d, 750d, 1150d OR WALL/CEILING 150d, 300d WEATHER PROOF STROBE	0.030A	0	1	0	0
CEILING STROBE 1770d	0.342A	0	2	0	0
SOUNDER BASE LOW FREQ V-ABLT	0.143A	0	0	6	8
	NAC CKT CURRENT DRAW =	0.350A	0.715A	0.858A	1.544A
				TOTAL NAC CKT CURRENT DRAW =	3.071A
TOTAL STANDBY CALCULATIONS					
16 Total standby current				TOTAL STANBY CALCU	0.19A
17 Multiply by 24 or 60 for standby hours needed.				24H	
18 Total standby AH (Amp Hours)				3.6960 AH	
ALARM CURRENT CALCULATIONS					
19 Total alarm current				0.0833	
20 Multiply by 0.0833 for 5 min or 0.25 for 15 minutes of alarm				0.0033 AH	
21 Total alarm current				0.0033 AH	
BATTERY BACKUP REQUIREMENTS					
22 Sub total, add line 18+21				3.7043 AH	
23 Multiply by 1.25 for 25% Battery Derating Factor				4.6304 AH	
24 Total AH (Amp Hours)				4.6304 AH	
(2) BATTERY SUPPLIED = 7 AMP					

KIDDE NOTIFICATION APPLIANCE CURRENT DRAW LIST					
BMS CURRENT					
Candidate Rating	Standard	Report	Standard	Report	
CEILING LED 150d, 300d, 750d, 1150d	0.030	0.060			
WALL LED 150d, 300d, 750d, 1150d	0.030	0.060			
WALL WEATHER PROOF 150d	0.060	0.030			
WALL WEATHER PROOF 300d	0.060	0.030			
WALL WEATHER PROOF 750d	0.060	0.030			
WALL WEATHER PROOF 1150d	0.060	0.030			
CEILING 1770d	0.342				
WALL/CEILING 150d, 300d WEATHER PROOF STROBE	0.030				
	STANDBY CURRENT	ALARM CURRENT			
UP LOW FREQ SOUNDER BASE	0.386	0.140			

A x (L/1000) x R x I
 A= CURRENT REQUIRED BY THE DEVICE
 L= LENGTH DISTANCE FROM DEVICE TO DEVICE
 R = RESISTANCE OF WIRE PER 1000 FT.
 I= AMPS = 3.07 AMPS PER 1000 FT.
 VOLTAGE DROP BASE ON PANELS WORST CASE VOLTAGE OF 20.4 VDC

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N25-01	0.060A	26'	27'	0.600A	0.100V	0.600A	0.334V	2.6194%
N25-02	0.060A	39'	36'	0.540A	0.130V			
N25-03	0.060A	19'	16'	0.480A	0.147V			
N25-04	0.060A	12'	13'	0.420A	0.034V			
N25-05	0.060A	41'	42'	0.360A	0.093V			
N25-06	0.060A	20'	21'	0.300A	0.039V			
N25-07	0.060A	41'	42'	0.240A	0.062V			
N25-08	0.060A	12'	13'	0.180A	0.014V			
N25-09	0.060A	19'	16'	0.120A	0.012V			
N25-10	0.060A	39'	36'	0.060A	0.013V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N26-01	0.342A	30'	31'	0.718A	0.137V	0.718A	0.157V	0.7716%
N26-02	0.342A	6'	7'	0.377A	0.009V			
N26-03	0.035A	16'	17'	0.035A	0.006V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N27-01	0.342A	82'	87'	1.051A	0.541V	1.051A	0.637V	3.1207%
N27-02	0.342A	10'	11'	0.718A	0.049V			
N27-03	0.035A	7'	8'	0.377A	0.010V			
N27-04	0.342A	12'	13'	0.342A	0.028V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N28-01	0.342A	39'	37'	0.377A	0.079V	0.377A	0.081V	0.3676%
N28-02	0.035A	9'	10'	0.035A	0.002V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N33-01	0.060A	26'	27'	0.250A	0.058V	0.250A	0.181V	0.8892%
N33-02	0.060A	39'	36'	0.200A	0.049V			
N33-03	0.050A	18'	19'	0.120A	0.027V			
N33-04	0.060A	5'	6'	0.180A	0.002V			
N33-05	0.060A	12'	13'	0.120A	0.010V			
N33-06	0.060A	41'	42'	0.060A	0.016V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N34-01	0.342A	59'	60'	0.718A	0.265V	0.718A	0.287V	1.4538%
N34-02	0.342A	11'	12'	0.377A	0.028V			
N34-03	0.035A	14'	15'	0.035A	0.003V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N35-01	0.143A	40'	41'	0.858A	0.246V	0.858A	0.466V	2.2945%
N35-02	0.143A	21'	22'	0.715A	0.097V			
N35-03	0.143A	9'	10'	0.572A	0.039V			
N35-04	0.143A	15'	16'	0.429A	0.042V			
N35-05	0.143A	21'	22'	0.286A	0.039V			
N35-06	0.143A	6'	7'	0.143A	0.006V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N36-01	0.143A	40'	41'	1.144A	0.289V	1.144A	0.784V	3.9418%
N36-02	0.143A	7'	8'	1.001A	0.050V			
N36-03	0.143A	16'	17'	0.858A	0.090V			
N36-04	0.143A	8'	9'	0.715A	0.040V			
N36-05	0.143A	67'	68'	0.572A	0.239V			
N36-06	0.143A	11'	12'	0.429A	0.023V			
N36-07	0.143A	6'	7'	0.286A	0.012V			
N36-08	0.143A	39'	30'	0.143A	0.023V			

MIRBSP6A BPS#7 (5 MINUTES IN ALARM, 24HRS STANDBY)					
A	B	C	D	E	F
INTERNAL POWER SUPPLY COMPONENTS	Quantity	Standby Current	Total Standby Current (B x C)	Alarm Current	Total Alarm Current (E x F)
MAIN POWER SUPPLY BOARD	1	0.070A	0.070A	0.270A	0.270A
SOUNDER BASE LOW FREQ V-ABLT	36	0.000000A	0.215A	0.000000A	0.000A
		Total Standby Current =	0.286A	Total Alarm Current =	0.270A
NOTIFICATION APPLIANCES					
DEVICE CURRENT DRAW	CIRCUIT # AND QTY				
	N09	N08	N01	N02	
SOUNDER BASE LOW FREQ V-ABLT	0.143A	6	12	6	12
	NAC CKT CURRENT DRAW =	0.858A	1.716A	0.858A	1.716A
				TOTAL NAC CKT CURRENT DRAW =	5.148A
TOTAL STANDBY CALCULATIONS					
16 Total standby current				TOTAL STANBY CALCU	0.286
17 Multiply by 24 or 60 for standby hours needed.				24H	
18 Total standby AH (Amp Hours)				6.8640 AH	
ALARM CURRENT CALCULATIONS					
19 Total alarm current				TOTAL ALARM CURRENT CALCU	0.418
20 Multiply by 0.0833 for 5 min or 0.25 for 15 minutes of alarm				0.0833	
21 Total alarm current				0.4513 AH	
BATTERY BACKUP REQUIREMENTS					
22 Sub total, add line 18+21				7.3153 AH	
23 Multiply by 1.25 for 25% Battery Derating Factor				9.1441 AH	
24 Total AH (Amp Hours)				9.1441 AH	
(2) BATTERY SUPPLIED = 12 AMP					

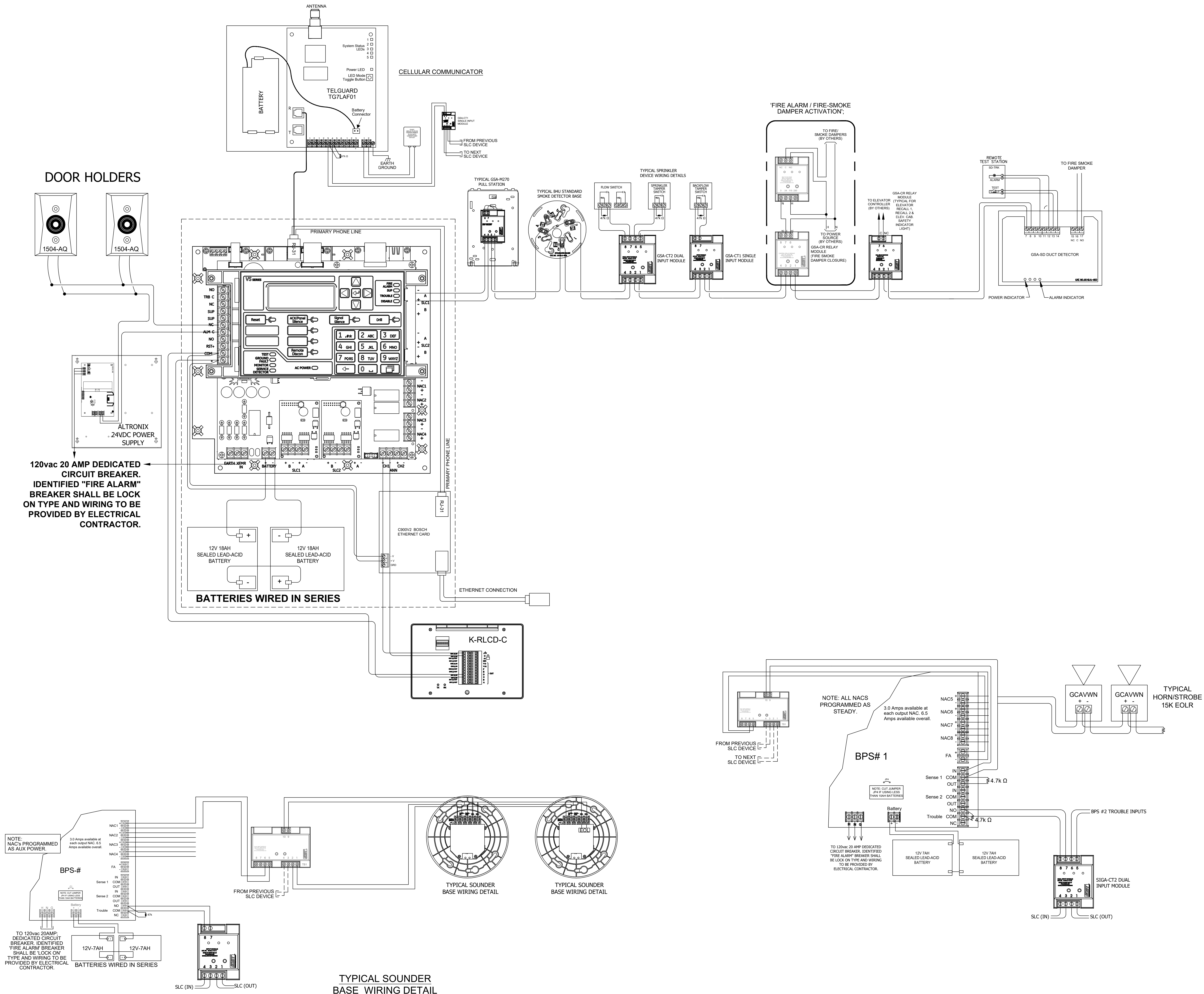
Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N29-01	0.143A	46'	47'	0.858A	0.246V	0.858A	0.466V	2.2945%
N29-02	0.143A	21'	22'	0.715A	0.097V			
N29-03	0.143A	9'	10'	0.572A	0.039V			
N29-04	0.143A	15'	16'	0.429A	0.042V			
N29-05	0.143A	21'	22'	0.286A	0.039V			
N29-06	0.143A	6'	7'	0.143A	0.006V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N30-01	0.240A	40'	41'	1.758A	0.402V	1.758A	1.275V	6.2760%
N30-02	0.240A	7'	8'	1.575A	0.076V			
N30-03	0.240A	16'	17'	1.400A	0.120V			
N30-04	0.240A	6'	7'	1.225A	0.027V			
N30-05	0.240A	38'	39'	1.144A	0.238V			
N30-06	0.240A	6'	7'	1.061A	0.046V			
N30-07	0.240A	12'	13'	0.886A	0.138V			
N30-08	0.240A	6'	7'	0.752A	0.020V			
N30-09	0.240A	16'	17'	0.577A	0.080V			
N30-10	0.240A	11'	12'	0.429A	0.020V			
N30-11	0.240A	6'	7'	0.286A	0.023V			
N30-12	0.240A	38'	39'	0.143A	0.020V			

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N31-01	0.143A	69'	67'	0.858A	0.353V	0.858A	0.573V	2.8110%
N31-02	0.143A	21'	22'	0.715A	0.097V			
N31-03	0.143A	9'	10'	0.572A	0.039V			
N31-04	0.143A	15'	16'	0.429A	0.042V			
N31-05	0.143A	21'	22'	0.286A	0.039V			
N31-06	0.143A	6'	7'	0.143A	0.006V			

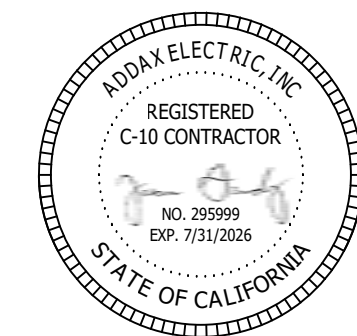
Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N32-01	0.240A	60'	61'	1.758A	0.404V	1.758A	1.490V	7.3850%
N32-02	0.240A	7'	8'	1.575A	0.076V			
N32-03	0.240A	24'	26'	1.404A	0.230V			
N32-04	0.240A	8'	9'	1.272A	0.212V			
N32-05	0.240A	30'	32'	1.084A	0.238V			
N32-06	0.240A	6'	7'	1.262A	0.044V			
N32-07	0.240A	24'	26'	1.058A	0.188V			
N32-08	0.240A	6'	7'	0.752A	0.052V			
N32-09	0.240A	24'	26'	0.752A	0.060V			
N32-10	0.240A	11'	12'	0.424A	0.024V			
N32-11	0.240A	6'	7'	0.284A	0.022V			
N32-12	0.240A	25'	26'	0.268A	0.022V			

N.A.C. #32
SOUNDER BASE CIRCUIT



SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
SAN DIEGO, CA 92104

Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999 C-10
SBE & DBE #1745359
Alarm Licence ACO 7310



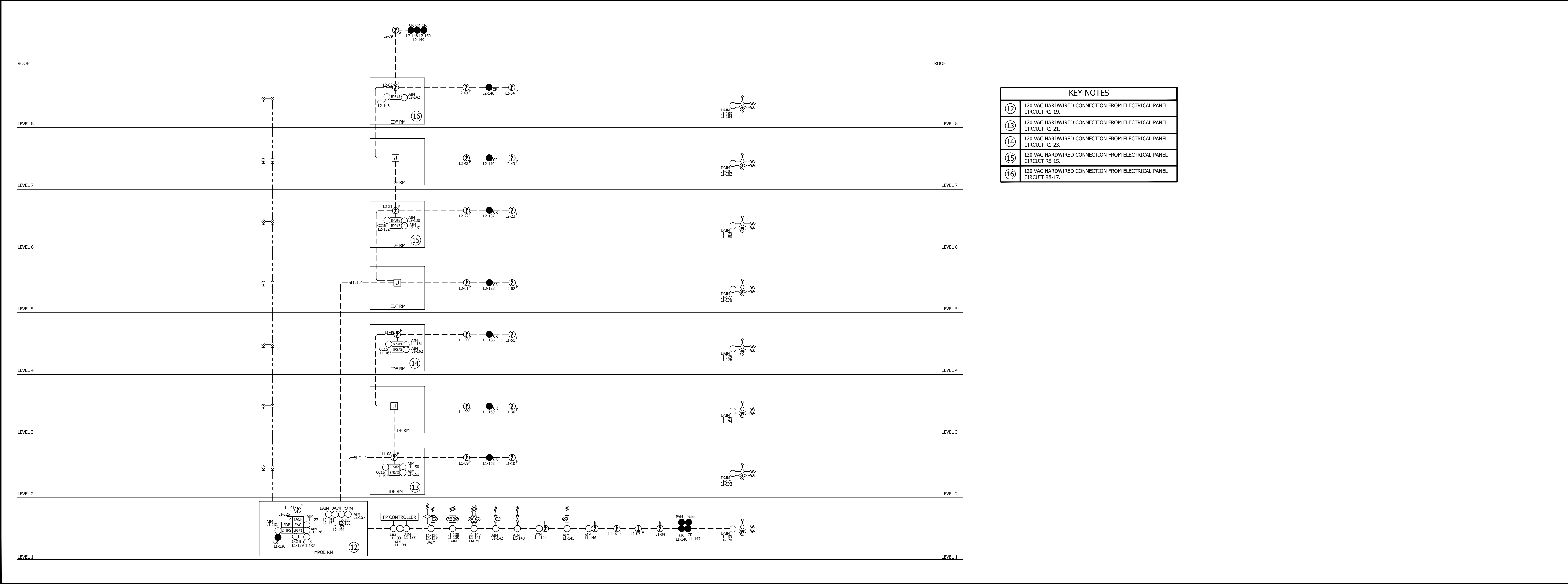
REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	
DESIGNER: FUEGO ENGINEERING & DESIGN P.O. BOX 809922 PORT SAINT LUKE, FL 34986 CARLOS OLIVERAS (619) 510-8637, NICET III #84003 carlos.oliveras@fuegoeng.com			
DESIGN: CO DRAWN:			
CHECKED: JG JOB NO:			
DATE: 06-02-2025 PLOT:			
SHEET TITLE:			
POINT TO POINT DIAGRAM			
SAINT LUKE'S MULTIFAMILY FIRE ALARM SYSTEM			
SCALE: NOT TO SCALE			
SHEET NO.			

FA-0.4

RISER DIAGRAM - NOTIFICATION / SLC CIRCUITS



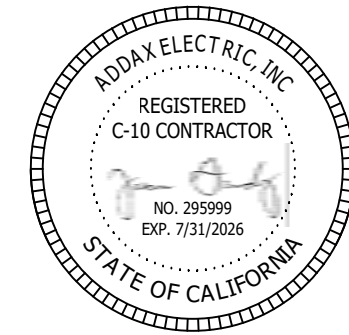
RISER DIAGRAM - SLC / DOOR HOLDER CRICUITS



KEY NOTES	
12	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-19.
13	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-21.
14	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-23.
15	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-15.
16	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-17.

SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
SAN DIEGO, CA 92104

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El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999 C-10
SBE & DWBE #1745359
Alarm Licence ACO 7310



REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 809922
PORT SAINT LUKE, FL 34986
CARLOS OLIVERAS (619) 510-8637, NICET III #84003
carlos.oliveras@fuegoeng.com

DESIGN: CO DRAWN:

CHECKED: JG JOB NO:

DATE: 06-02-2025 PLOT:

SHEET TITLE:

SYSTEM RISER
DIAGRAM

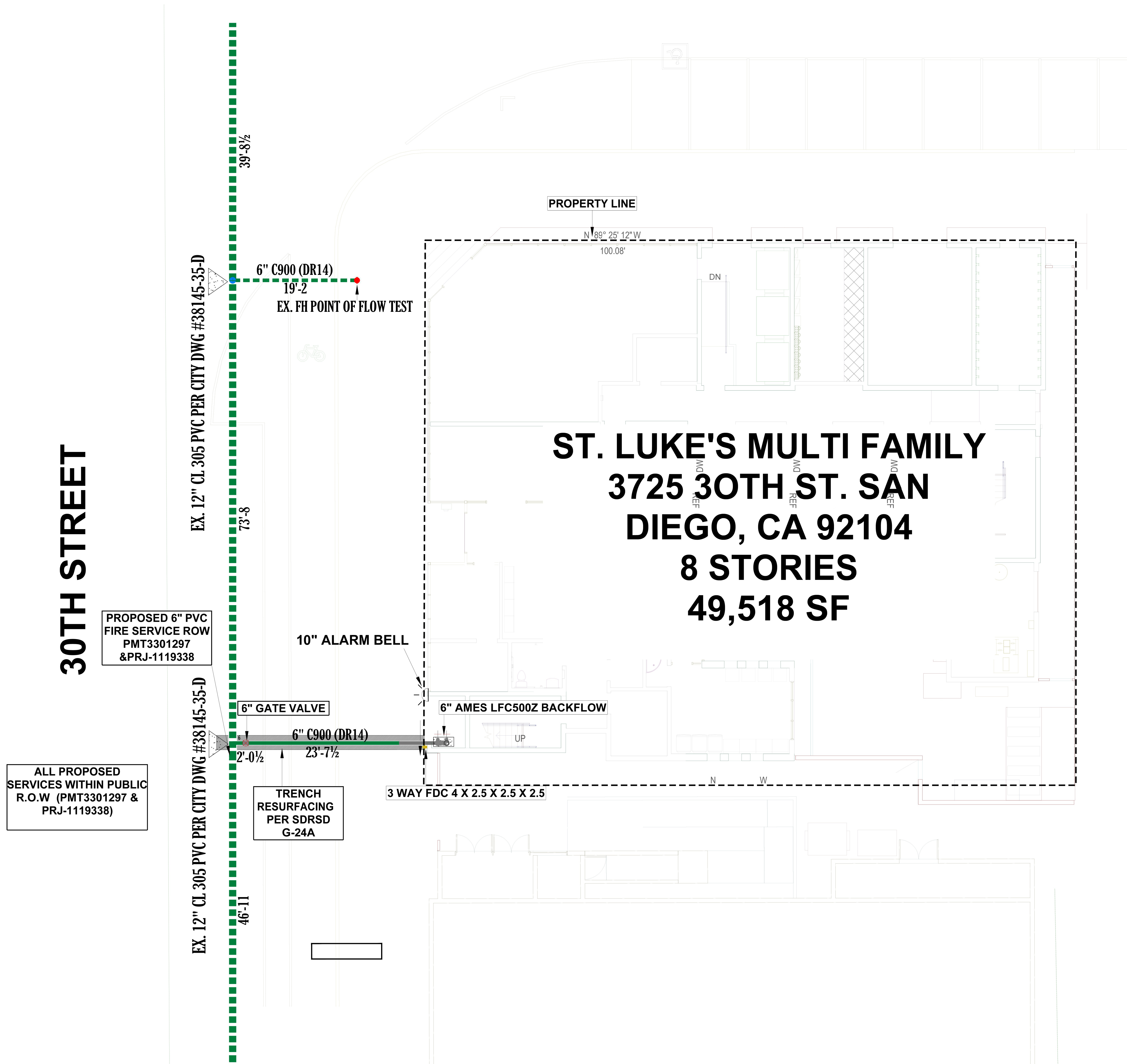
SAINT LUKE'S MULTIFAMILY

FIRE ALARM SYSTEM

SCALE: NOT TO SCALE

SHEET NO.

FA-0.5



30TH STREET

ALL PROPOSED
SERVICES WITHIN PUBLIC
R.O.W (PMT3301297 &
PRJ-1119338)

PROPOSED 6" PVC
FIRE SERVICE ROW
PMT3301297
&PRJ-1119338

EX. 12" CL 305 PVC PER CITY DWG #38145-35-D

EX. 12" CL 305 PVC PER CITY DWG #38145-35-D

39'-8 1/2"

73'-8"

46'-11"

19'-2"

2'-0 1/2"

23'-7 1/2"

6" C900 (DR14)

6" C900 (DR14)

6" GATE VALVE

TRENCH
RESURFACING
PER SDRSD
G-24A

EX. FH POINT OF FLOW TEST



10" ALARM BELL

6" AMES LFC500Z BACKFLOW

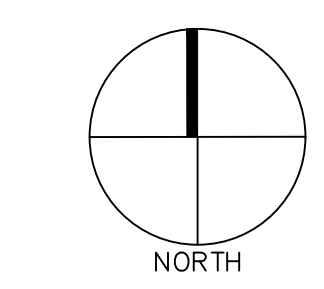
3 WAY FDC 4 X 2.5 X 2.5 X 2.5

PROPERTY LINE

N 88° 25' 12" W
100.08'

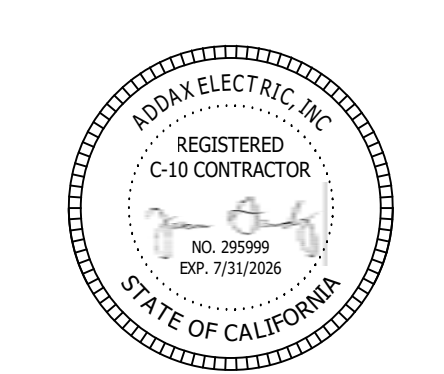
ST. LUKE'S MULTI FAMILY
3725 30TH ST. SAN
DIEGO, CA 92104
8 STORIES
49,518 SF

FOR REFERENCE ONLY



SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
SAN DIEGO, CA 92104

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CA State Licence #295999 C-10
EXP: 7/31/2026
SBE & DBE #1745359
Alarm Licence ACO 7310



REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 889922
PORT SAINT LUKE, FL 34986
CARLOS OLIVERAS (519) 510-8637, NICET III #84003
carlos.oliveras@fuegoeng.com

DESIGN: CO DRAWN:

CHECKED: JG JOB NO:

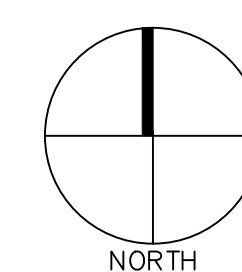
DATE: 06-02-2025 PLOT:

SHEET TITLE:
FIRE SERVICE
SITE PLAN

SAINT LUKE'S MULTIFAMILY
FIRE ALARM SYSTEM

SCALE: NOT TO SCALE

SHEET NO.
FA-S.0



WIRE LEGEND

SYMBOL	PURPOSE	WIRE SIZE / TYPE	WIRING CLASS
	SLC LOOP / ANN WIRE	(11)18/4 FLR	CLASS B
	SOUNDER BASE CIRCUITS	(11)14/2 FLR	CLASS B
	HORN-STROBE CIRCUITS	(11)14/2 FLR	CLASS B
	DOOR HOLDER POWER	(11)14/2 FLR	CLASS D
	UNDERGROUND WIRE	(11)18/4 THWN	--
	ADA PRE-WIRE CIRCUIT	(11)14/2 FLR	--

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

1	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY P.A.S.
2	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP / BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
3	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72-7.7.2.
4	ELEVATOR ROLLER AND FIREMENS HAT FIELD MODULIES. VERIFY VERTICAL LOCATION. INSTALL NO MORE THAN 3'-0" AWAY FROM INTERFACE DEVICE.
5	SMOKE DETECTOR IS REQUIRED BY THE STATE. ELEVATOR INSPECTOR.
6	FUTURE HEARING IMPAIRED 7-BOS. SEE DETAIL ON SHEET FA-0.0.
7	FIELD VERIFY LOCATION OF ERCS MONITOR MODULE.
8	FIRE SMOKE DAMPER ACTIVATION RELAY. FIELD VERIFY LOCATION WITH ELECTRICAL CONTRACTOR.
9	FIELD VERIFY LOCATION OF SPRINKLER DEVICE.
10	FIELD VERIFY LOCATION OF BACKFLOW DEVICE. SEE SITE PLAN FOR LOCATION.
11	DUCT SMOKE DETECTORS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR FOR SMOKE DETECTOR.
12	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-19.
13	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-23.
14	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-23.
15	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-15.
16	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-17.
17	SMOKE DETECTOR SHALL BE LOCATED NO MORE THAN 5 FEET FROM THE FIRE DOORS.
18	RELAY MODULE FOR SMOKE CURTAIN RELEASE.

SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM
	CELLULAR COMMUNICATOR
	REMOTE ANN
	FIRE ALARM DOCUMENT CABINET
	BOOSTER POWER SUPPLY
	DOOR HOLDER POWER SUPPLY
	SMOKE DETECTOR
	HEAT DETECTOR
	SOUNDER BASE
	PULL STATION
	INPUT MODULE
	DUAL INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DUCT SMOKE DETECTOR
	MULTI VOLTAGE RELAY
	TEMPORAL PATTERN GENERATOR
	REVERSE POLARITY RELAY
	SIGNAL CONTROL RELAY
	HORN-STROBE CEILING
	HORN-STROBE WALL
	STROBE CEILING
	STROBE WALL
	STROBE WALL, WP
	HORN-STROBE WALL, WP
	DOOR HOLDER
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER BACKFLOW SWITCH
	FIRE SMOKE DAMPER

WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH TWO DETECTOR SENSING INLET TUBES. THE DETECTOR AND THE DAMPER, THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY AND TESTED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE SHUTTING DOWN OF THE FAN.

WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.

WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OR EXHAUST WALL, A SMOKE DETECTOR SHALL BE LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER.

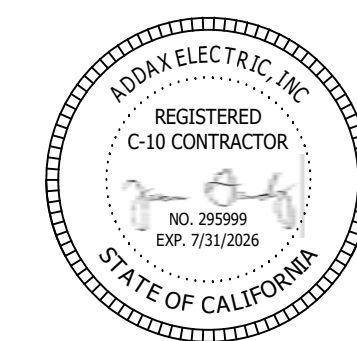
WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMIT TO OPERATE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.

WHERE A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN AREAS OF OCCUPANCY, INCLUDING MECHANICAL AND AIR-CONDITIONED (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

RF-FFET TO 716.332 (IBC 2002)

**SAINT LUKE'S
MULTIFAMILY**
3727 30TH STREET
SAN DIEGO, CA 92104

Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999
EXP. 7/31/2026
SBE & DVBE #1745359
Alarm Licence ACO 7310



ADDAX
ELECTRIC INC.
FIRE & INTEGRATION



REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 880922
PORT SAINT LUCIE, FL 34986
CARLOS OLIVERAS (619) 610-8637, NICET III #84003

DESIGN: CO	DRAWN:
CHECKED: JG	JOB NO:

DATE: 06-02-2025	PLOT:
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SHEET TITLE:

LEVEL 1
FLOOR PLAN

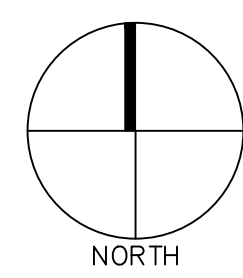
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SAINT LUKE'S MULTIFAMILY
FIRE ALARM SYSTEM

SCALE:

SHEET NO.

FA-1.0



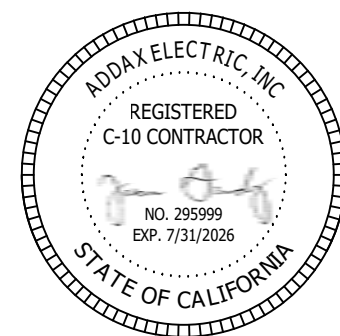
LEVEL 2 FLOOR PLAN

FIRE ALARM SYSTEM DEVICE LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM
	CELLULAR COMMUNICATOR
	REMOTE ANN
	FIRE ALARM DOCUMENT CABINET
	BOOSTER POWER SUPPLY
	DOOR HOLDER POWER SUPPLY
	SMOKE DETECTOR
	HEAT DETECTOR
	SOUNDER BASE
	PULL STATION
	INPUT MODULE
	DUAL INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DUCT SMOKE DETECTOR
	MULTI VOLTAGE RELAY
 	TEMPORAL PATTERN GENERATOR
	REVERSE POLARITY RELAY
	SIGNAL CONTROL RELAY
	HORN-STROBE CEILING
	HORN-STROBE WALL
	STROBE CEILING
	STROBE WALL
	STROBE WALL, WP
	HORN-STROBE WALL, WP
	DOOR HOLDER
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER BACKFLOW SWITCH
	FIRE SMOKE DAMPER

	SHALL BE PERMITTED TO BE CONTROLLED DETECTION SYSTEM.
REFER TO 716.3.3.2 (CBC 2022)	

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence # 295999
EXP. 7/31/2026
SBE & DVBE #1745359
Alarm Licence ACO 7310



ADDAX
E L E C T R I C I N C .
FIRE & INTEGRATION

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 880922
PORT SAINT LUCIE, FL 34986
CARLOS OLIVERAS (619) 610-8637, NICE

DESIGN:	CO	DRAWN:
CHECKED:	JG	JOB NO

DATE: 06-02-2025 PLOT:

SHEET TITLE:

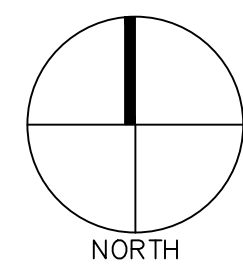
LEVEL 2 FLOOR PLAN

INT LUKE'S MULTIFAMIL

SCALE: 0 2' 4' 8' 16'

SHEET NO.

FA-2.0



LEVEL 3 FLOOR PLAN

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

FIRE ALARM SYSTEM DEVICE LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM
	CELLULAR COMMUNICATOR
	REMOTE ANN
	FIRE ALARM DOCUMENT CABINET
	BOOSTER POWER SUPPLY
	DOOR HOLDER POWER SUPPLY
	SMOKE DETECTOR
	HEAT DETECTOR
	SOUNDER BASE
	PULL STATION
	INPUT MODULE
	DUAL INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DUCT SMOKE DETECTOR
	MULTI VOLTAGE RELAY
	TEMPORAL PATTERN GENERATOR
	REVERSE POLARITY RELAY
	SIGNAL CONTROL RELAY
	HORN-STROBE CEILING
	HORN-STROBE WALL
	STROBE CEILING
	STROBE WALL
	STROBE WALL, WP
	HORN-STROBE WALL, WP
	DOOR HOLDER
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER BACKFLOW SWITCH
	FIRE SMOKE DAMPER

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 880922
PORT SAINT LUCIE, FL 34986
CARLOS OLIVERAS (619) 610-8637, NICET III #4003
carlos.oliveras@fuegoeng.com

DESIGN: CO	DRAWN:
CHECKED: JG	JOB NO:

DATE: 06-02-2025	PLOT:
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SHEET TITLE:

LEVEL 3
FLOOR PLAN

SAINT LUKE'S MULTIFAMILY
FIRE ALARM SYSTEM

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

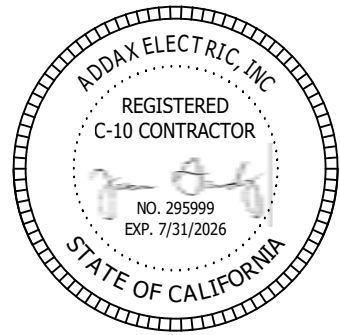
SHEET NO.

FA-3.0

**SAINT LUKE'S
MULTIFAMILY**
3727 30TH STREET
SAN DIEGO, CA 92101

Addax Electric

P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence # 295999
EXP. 7/31/2026
SBE & DVB# #1745359
Alarm Licence ACO 7310



ADDAX
ELECTRIC INC.
FIRE & INTEGRATION

REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 880922
PORT SAINT LUCIE, FL 34986
CARLOS OLIVERAS (619) 610-8637, NICET III #4003
carlos.oliveras@fuegoeng.com

DESIGN: CO	DRAWN:
CHECKED: JG	JOB NO:

DATE: 06-02-2025	PLOT:
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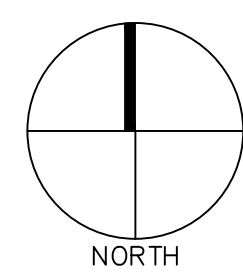
SHEET TITLE:

LEVEL 3
FLOOR PLAN

SAINT LUKE'S MULTIFAMILY
FIRE ALARM SYSTEM

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

SHEET NO.



LEVEL 4 FLOOR PLAN

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM
	CELLULAR COMMUNICATOR
	REMOTE ANN
	FIRE ALARM DOCUMENT CABINET
	BOOSTER POWER SUPPLY
	DOOR HOLDER POWER SUPPLY
	SMOKE DETECTOR
	HEAT DETECTOR
	SONDER
	PULL STATION
	INPUT MODULE
	DUAL INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DUCT SMOKE DETECTOR
	MULTI VOLTAGE RELAY
	TEMPORAL PATTERN GENERATOR
	REVERSE POLARITY RELAY
	SIGNAL CONTROL RELAY
	HORN-STROBE CEILING
	HORN-STROBE WALL
	STROBE CEILING
	STROBE WALL
	STROBE WALL WP
	HORN-STROBE WALL WP
	DOOR HOLDER
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER BACKFLOW SWITCH
	FIRE SMOKE DAMPER

SMOKE DAMPER ACTUATION

WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN MECHANICAL EXHAUST SYSTEMS, THE DETECTOR SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTION REQUIRE A FAN SHUTDOWN TO OPERATE.

WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF EACH SMOKE BARRIER.

WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELASING SERVICE SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER.

WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE OPERATED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.

WHERE A TOTAL COVERAGE SMOKE-DETECTION SYSTEM IS INSTALLED IN A SPACE, INCLUDING A SPACE WITH A FAN, FAN AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE OPERATED BY THE SMOKE DETECTION SYSTEM.

REFER TO 716.3.3.2 (CBC 2022)

Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-301
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999
EXP. 7/31/2026
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Alarm Licence ACO 7310



DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 880922
PORT SAINT LUCIE, FL 34986
CARLOS OLIVERAS (619) 610-8637, NICET III #84003

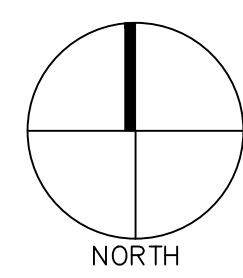
DATE: 06-02-2025 PLOT:

SAINT LUKE'S MULTIFAMILY
FIRE ALARM SYSTEM

A horizontal number line with tick marks at 0, 2, 4, and 6.

SHEET NO.

FA-4.0



NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

FIRE ALARM SYSTEM DEVICE LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM
	CELLULAR COMMUNICATOR
	REMOTE ANN
	FIRE ALARM DOCUMENT CABINET
	BOOSTER POWER SUPPLY
	DOOR HOLDER POWER SUPPLY
	SMOKE DETECTOR
	HEAT DETECTOR
	SOUNDER BASE
	PULL STATION
	INPUT MODULE
	DUAL INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DUCT SMOKE DETECTOR
	MULTI VOLTAGE RELAY
	TEMPORAL PATTERN GENERATOR
	REVERSE POLARITY RELAY
	REVERSE POLARITY RELAY
	SIGNAL CONTROL RELAY
	HORN-STROBE CEILING
	HORN-STROBE WALL
	STROBE CEILING
	STROBE WALL
	STROBE WALL, WP
	HORN-STROBE WALL, WP
	DOOR HOLDER
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER BACKFLOW SWITCH
	FIRE SMOKE DAMPER

WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH NO MORE THAN 10' OF AIR JUNCTIONS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE TESTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY AND ADJUSTED AT THE TIME OF INSTALLATION TO OPERATE AT LESS THAN 10% MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTION IS REQUIRED FOR SMOKE CONTROL.

WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER ON NORMAL OPERATION.

WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER.

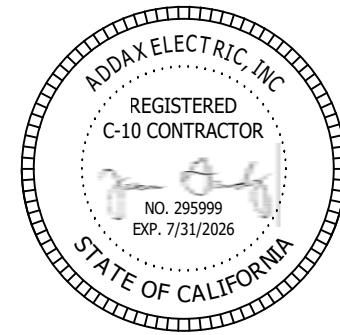
WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A LOCAL SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.

WHERE A TOTAL-COVERAGE SMOKE DETECTION SYSTEM IS PROVIDED IN A CORRIDOR AREA SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

REFER TO 716.3.32 (CBC 2022)

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

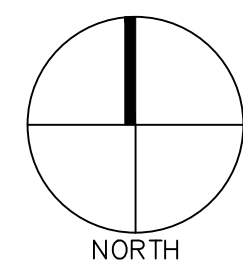
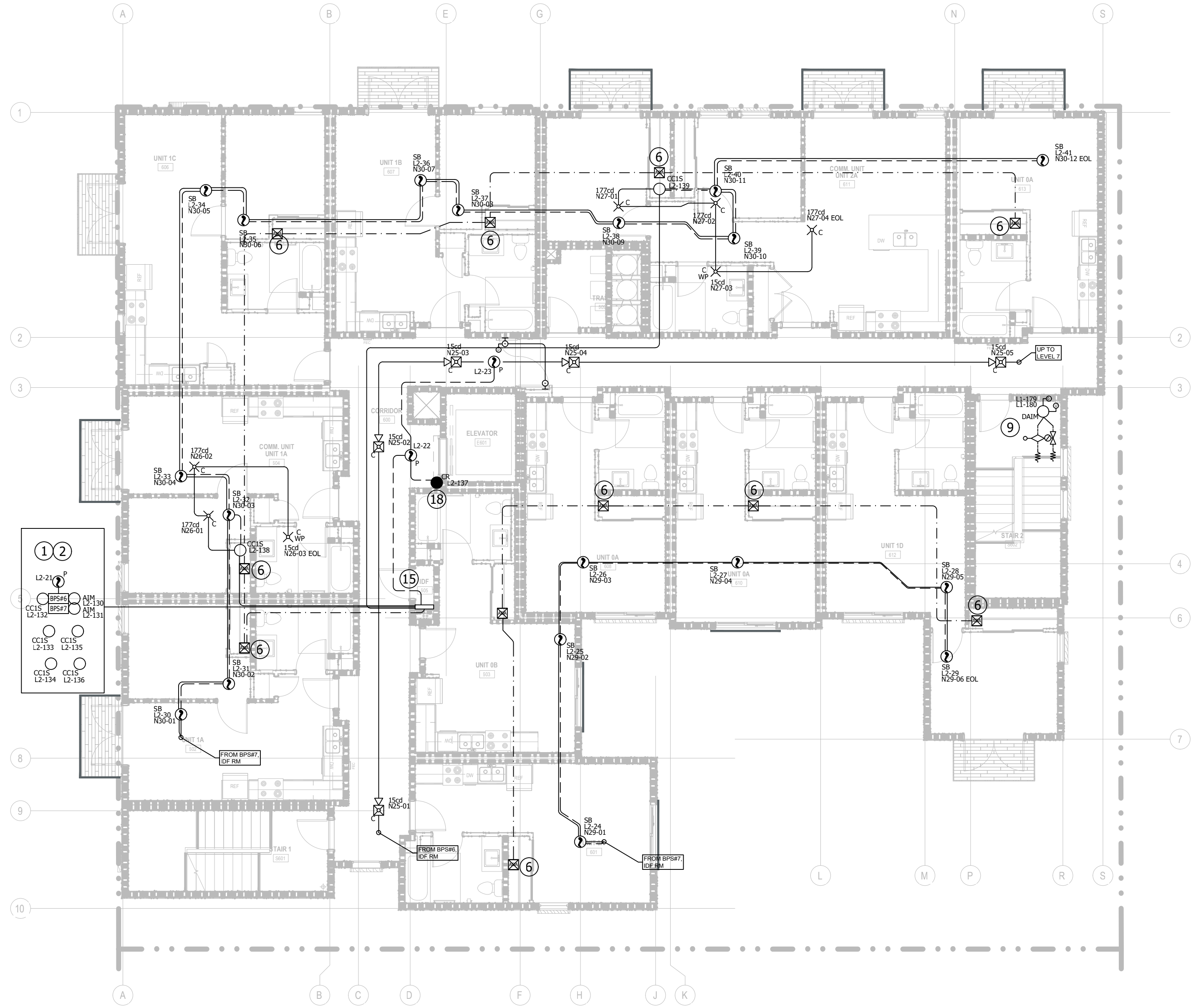
Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
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CA.State.Licence #295999
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Alarm Licence ACO 7310



ADDAX
ELECTRIC INC.
FIRE & INTEGRATION

SHEET TITLE:	
LEVEL 5 FLOOR PLAN	
SAINT LUKE'S MULTIFAMILY FIRE ALARM SYSTEM	
SCALE:	
SHEET NO.	

FA-5.0



LEVEL 6 FLOOR PLAN

KEY NOTES	
1	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
2	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP / BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
3	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72 7.7.2
4	ELEVATOR RECALL AND FIREMEN'S HAT RELAY MODULES. FIELD VERIFY LOCATION. INSTALL NO MORE THAN 3'-0" AWAY FROM INTERFACE DEVICE.
5	SMOKE DETECTOR IS REQUIRED BY THE STATE ELEVATOR INSPECTOR.
6	FUTURE HEARING IMPAIRED J-BOX. SEE DETAIL ON SHEET FA-0.0.
7	FIELD VERIFY LOCATION OF ERICS MONITOR MODULE.
8	FIRE SMOKE DAMPER ACTIVATION RELAY. FIELD VERIFY LOCATION WITH ELECTRIC CONTRACTOR.
9	FIELD VERIFY LOCATION OF SPRINKLER DEVICE.
10	FIELD VERIFY LOCATION OF BACKFLOW DEVICE. SEE SITE PLAN FOR LOCATION.
11	DUCT SMOKE DETECTORS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR DUCT SMOKE DETECTORS.
12	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-19.
13	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-21.
14	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-23.
15	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-15.
16	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-17.
17	SMOKE DETECTOR SHALL BE LOCATED NO MORE THAN 5 FEET FROM THE FIRE DOORS.
18	RELAY MODULE FOR SMOKE CURTAIN RELEASE.

FIRE ALARM SYSTEM DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM SYSTEM
[FAC]	CELLULAR COMMUNICATOR
[FSA]	REMOTE ANN
[FDB]	FIRE ALARM DOCUMENT CABINET
[BPS]	BOOSTER POWER SUPPLY
[DHP]	DOOR HOLDER POWER SUPPLY
[SD]	SMOKE DETECTOR
[HD]	HEAT DETECTOR
[SB]	SOUNDER BASE
[P]	PULL STATION
[ADM]	INPUT MODULE
[DAM]	DUAL INPUT MODULE
[CR]	ADDRESSABLE RELAY MODULE
[DR]	DUCT SMOKE DETECTOR
[MVR]	MULTI VOLTAGE RELAY
[TPG]	TEMPORAL PATTERN GENERATOR
[RPR]	REVERSE POLARITY RELAY
[CCR]	SIGNAL CONTROL RELAY
[CCIS]	HORN-STROBE CEILING
[HSC]	HORN-STROBE WALL
[SC]	STROBE CEILING
[SW]	STROBE WALL
[SWP]	STROBE WALL, WP
[HSCWP]	HORN-STROBE WALL, WP
[DH]	DOOR HOLDER
[ST]	SPRINKLER TAMPER SWITCH
[FS]	SPRINKLER FLOW SWITCH
[BS]	SPRINKLER BACKFLOW SWITCH
[FSD]	FIRE SMOKE DAMPER

SMOKE DAMPER ACTUATION	
M-1	WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.
M-2	WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
M-3	WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER.
M-4	WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.
M-5	WHERE A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.
REFER TO 716.3.3.2 (CBC 2022)	

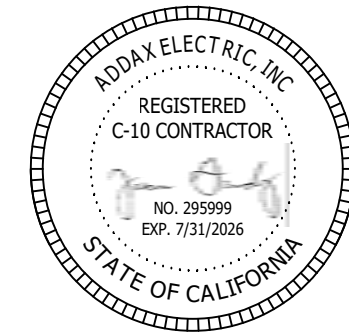
WIRE LEGEND			
SYMBOL	PURPOSE	WIRE SIZE / TYPE	WIRING CLASS
---	SLC LOOP / ANN WIRE	[1]18/4 FPLR	CLASS B
---	SOUNDER BASE CIRCUITS	[1]14/2 FPLR	CLASS B
---	HORN-STROBE CIRCUITS	[1]14/2 FPLR	CLASS B
---	DOOR HOLDER POWER	[1]14/2 FPLR	CLASS D
---	UNDERGROUND WIRE	[1]18/4 THWN	--
---	ADA PRE-WIRE CIRCUIT	[1]14/2 FPLR	--

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
SAN DIEGO, CA 92104

Addax Electric

P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999 C-10
EXP: 7/31/2026
SBE & DWBE #1745359
Alarm Licence ACO 7310



REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 889922
PORT SAINT LUKE, FL 34986
CARLOS OLIVERAS (619) 510-8637, NCCET #11 #84003
carlos.oliveras@fuegoeng.com

DESIGN: CO DRAWN:
CHECKED: JG JOB NO:

DATE: 06-02-2025 PLOT:

SHEET TITLE:
LEVEL 6
FLOOR PLAN

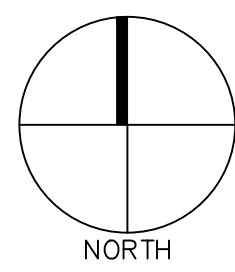
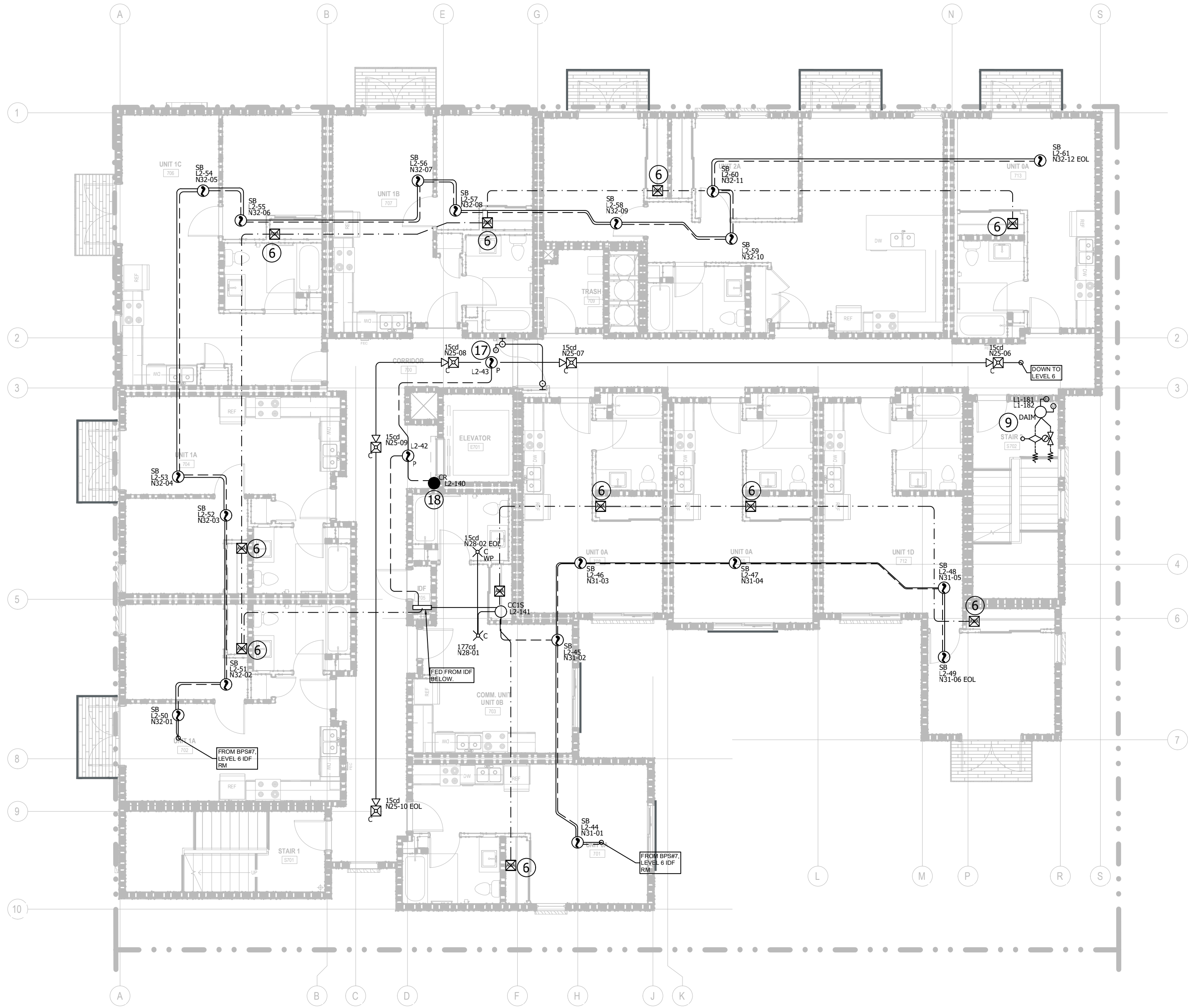
SAINT LUKE'S MULTIFAMILY

FIRE ALARM SYSTEM

SCALE: 0 4 8 16'

SHEET NO.

FA-6.0



LEVEL 7 FLOOR PLAN

KEY NOTES	
1	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
2	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP / BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
3	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72 7.7.2
4	ELEVATOR RECALL AND FIREMEN'S HAT RELAY MODULES. FIELD VERIFY LOCATION. INSTALL NO MORE THAN 3'-0" AWAY FROM INTERFACE DEVICE.
5	SMOKE DETECTOR IS REQUIRED BY THE STATE ELEVATOR INSPECTOR.
6	FUTURE HEARING IMPAIRED >BOX. SEE DETAIL ON SHEET FA-0.0.
7	FIELD VERIFY LOCATION OF ERRC'S MONITOR MODULE.
8	FIRE SMOKE DAMPER ACTIVATION RELAY. FIELD VERIFY LOCATION WITH ELECTRIC CONTRACTOR.
9	FIELD VERIFY LOCATION OF SPRINKLER DEVICE.
10	FIELD VERIFY LOCATION OF BACKFLOW DEVICE. SEE SITE PLAN FOR LOCATION.
11	DUCT SMOKE DETECTORS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR DUCT SMOKE DETECTORS.
12	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-19.
13	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R4-21.
14	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-23.
15	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-15.
16	120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-17.
17	SMOKE DETECTOR SHALL BE LOCATED NO MORE THAN 5 FEET FROM THE FIRE DOORS.
18	RELAY MODULE FOR SMOKE CURTAIN RELEASE.

FIRE ALARM SYSTEM DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM SYSTEM
[FAC]	CELLULAR COMMUNICATOR
[ISA]	REMOTE ANN
[FDR]	FIRE ALARM DOCUMENT CABINET
[BSP]	BOOSTER POWER SUPPLY
[DHP]	DOOR HOLDER POWER SUPPLY
⊙	SMOKE DETECTOR
⊙ _H	HEAT DETECTOR
⊙ _{SB}	SOUNDER BASE
[P]	PULL STATION
○ _{ADM}	INPUT MODULE
○ _{DADM}	DUAL INPUT MODULE
● _{DR}	ADDRESSABLE RELAY MODULE
● _{DR}	DUCT SMOKE DETECTOR
● _{DR}	MULTI VOLTAGE RELAY
● _{DR}	TEMPORAL PATTERN GENERATOR
● _{DR}	REVERSE POLARITY RELAY
○ _{DR}	SIGNAL CONTROL RELAY
⊙ _{DR}	HORN-STROBE CEILING
⊙ _{DR}	HORN-STROBE WALL
X _{DR}	STROBE CEILING
X _{DR}	STROBE WALL
X _{DR}	STROBE WALL, WP
⊙ _{DR}	HORN-STROBE WALL, WP
⊙	DOOR HOLDER
⊙	SPRINKLER TAMPER SWITCH
⊙	SPRINKLER FLOW SWITCH
⊙	SPRINKLER BACKFLOW SWITCH
⊙	FIRE SMOKE DAMPER

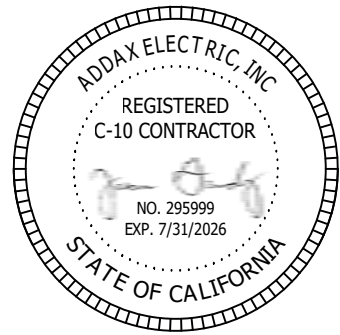
SMOKE DAMPER ACTUATION	
(M-1)	WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.
(M-2)	WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
(M-3)	WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL INSTALLED WITHIN 5' HORIZONTIALLY OF THE DAMPER.
(M-4)	WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.
(M-5)	WHERE A TOTAL COVERAGE SMOKE DETECTION SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.
REFER TO 716.3.3.2 (CBC 2022)	

WIRE LEGEND			
SYMBOL	PURPOSE	WIRE SIZE / TYPE	WIRING CLASS
---	SLC LOOP / ANN WIRE	(1)18/4 FPLR	CLASS B
---	SOUNDER BASE CIRCUITS	(1)14/2 FPLR	CLASS B
---	HORN-STROBE CIRCUITS	(1)14/2 FPLR	CLASS B
---	DOOR HOLDER POWER	(1)14/2 FPLR	CLASS D
---	UNDERGROUND WIRE	(1)18/4 THWN	--
---	ADA PRE-WIRE CIRCUIT	(1)14/2 FPLR	--

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
SAN DIEGO, CA 92104

Addax Electric
P.O. Box 21436
El Cajon, CA 92021
TEL: (619) 749-8360 x-304
FAX: (619) 749-8390
jgandy@addaxelectric.com
CA State Licence #295999 C-10
SBE & DBE #1745359
Alarm Licence ACO 7310



REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	
DESIGNER: FUEGO ENGINEERING & DESIGN P.O. BOX 889922 PORT SAINT LUKE, FL 34986 CARLOS OLIVERAS (619) 510-8637, NICET III #84003 carlos.oliveras@fuegoeng.com			
DESIGN:	CO	DRAWN:	
CHECKED:	JG	JOB NO:	
DATE:	06-02-2025	PLOT:	

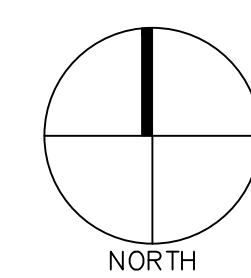
SHEET TITLE:
LEVEL 7
FLOOR PLAN

SAINT LUKE'S MULTIFAMILY
FIRE ALARM SYSTEM

SCALE: 0" = 4' = 8' = 16'
1/8" = 1'-0"

SHEET NO.

FA-7.0



LEVEL 8 FLOOR PLAN

FIRE ALARM SYSTEM DEVICE LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM
	CELLULAR COMMUNICATOR
	REMOTE ANN
	FIRE ALARM DOCUMENT CABINET
	BOOSTER POWER SUPPLY
	DOOR HOLDER POWER SUPPLY
	SMOKE DETECTOR
	HEAT DETECTOR
	SOUNDER BASE
	PULL STATION
	INPUT MODULE
	DUAL INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DUCT SMOKE DETECTOR
	MULTI VOLTAGE RELAY
	TEMPORAL PATTERN GENERATOR
	REVERSE POLARITY RELAY
	SIGNAL CONTROL RELAY
	HORN-STROBE CEILING
	HORN-STROBE WALL
	STROBE CEILING
	STROBE WALL
	STROBE WALL, WP
	HORN-STROBE WALL, WP
	DOOR HOLDER
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER BACKFLOW SWITCH
	FIRE SMOKE DAMPER

			CARLOS OLIVERAS (119) 610-8637, NICET III #94003 carlos.oliveras@lenging.com			
			DESIGN:	CO	DRAWN:	
			CHECKED:	JG	JOB NO:	
			DATE: 06-02-2025 PLOT:			
			SHEET TITLE:			
			LEVEL 8 FLOOR PLAN			
			SAINT LUKE'S MULTIFAMILY			
			FIRE ALARM SYSTEM			
			SCALE:			
			SHEET NO.			

PROPOSE	WIRE SIZE / TYPE	WIRING CLASS
TOP / ANN WIRE	[[1]]18/4 FLPL	CLASS B
ORDER BASE CIRCUITS	[[1]]14/2 FLPL	CLASS B
STROBE CIRCUITS	[[1]]14/2 FLPL	CLASS B
HOLDER POWER	[[1]]14/2 FLPL	CLASS D
GROUND WIRE	[[1]]18/4 THWN	--
RE-WIRE CIRCUIT	[[1]]14/2 FLPL	--

COMPLY WITH NEC 760.170, 760.3, AND CHAPTER 3

WIRE LEGEND			
SYMBOL	PURPOSE	WIRE SIZE / TYPE	WIRING CLASS
	SLC LOOP / ANN WIRE	(11)18/4 FPLR	CLASS B
	SOUNDER BASE CIRCUITS	(11)14/2 FPLR	CLASS B
	HORN-STROBE CIRCUITS	(11)14/2 FPLR	CLASS B
	DOOR HOLDER POWER	(11)14/2 FPLR	CLASS D
	UNDERGROUND WIRE	(11)18/4 THWN	--
	ADA PRE-WIRE CIRCUIT	(11)14/2 FPLR	--

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

**SAINT LUKE'S
MULTIFAMILY**
3727 30TH STREET
SAN DIEGO, CA 92104

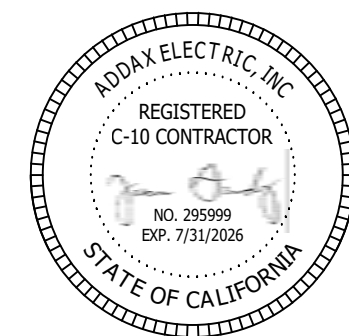
Addax Electric

P.O. Box 21436
El Cajon, CA 92021

TEL: (619) 749-8360 x-304
FAX: (619) 749-8390

jjgandy@addaxelectric.com
CA.State Licence #295999 C-10

EXP. 7/31/2026
SBE & DVBE #1745359



ADDAX
ELECTRIC INC.
FIRE & INTEGRATION

REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFP CORRECTIONS	
DESIGNER: FUEGO ENGINEERING & DESIGN P.O. BOX 889022 PORT SAINT LUCIE, FL 34986 CARLOS OLIVERAS (512) 612-8627, NICTE III # 9403 carlos.oliveras@fuegoeng.com 			
DESIGN:	CO	DRAWN:	
CHECKED:	JG	JOB NO:	
DATE:	06-02-2025	PLOT:	

DESIGNER: FUEGO ENGINEERING & DESIGN
P.O. BOX 880922
PORT SAINT LUCIE, FL 34986
CARLOS OLIVERAS (619) 610-8637, NICET III #84003

DESIGN:	CO	DRAWN
CHECKED:	JG	JOB NO.

DATE: 06-02-2025	PLOT:
SHEET TITLE:	

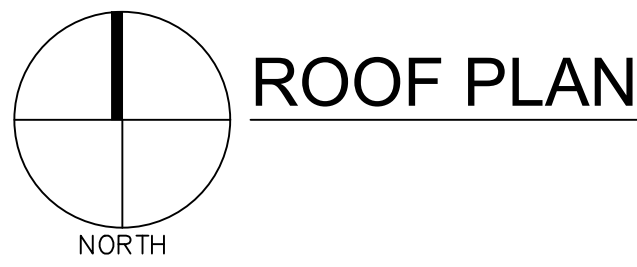
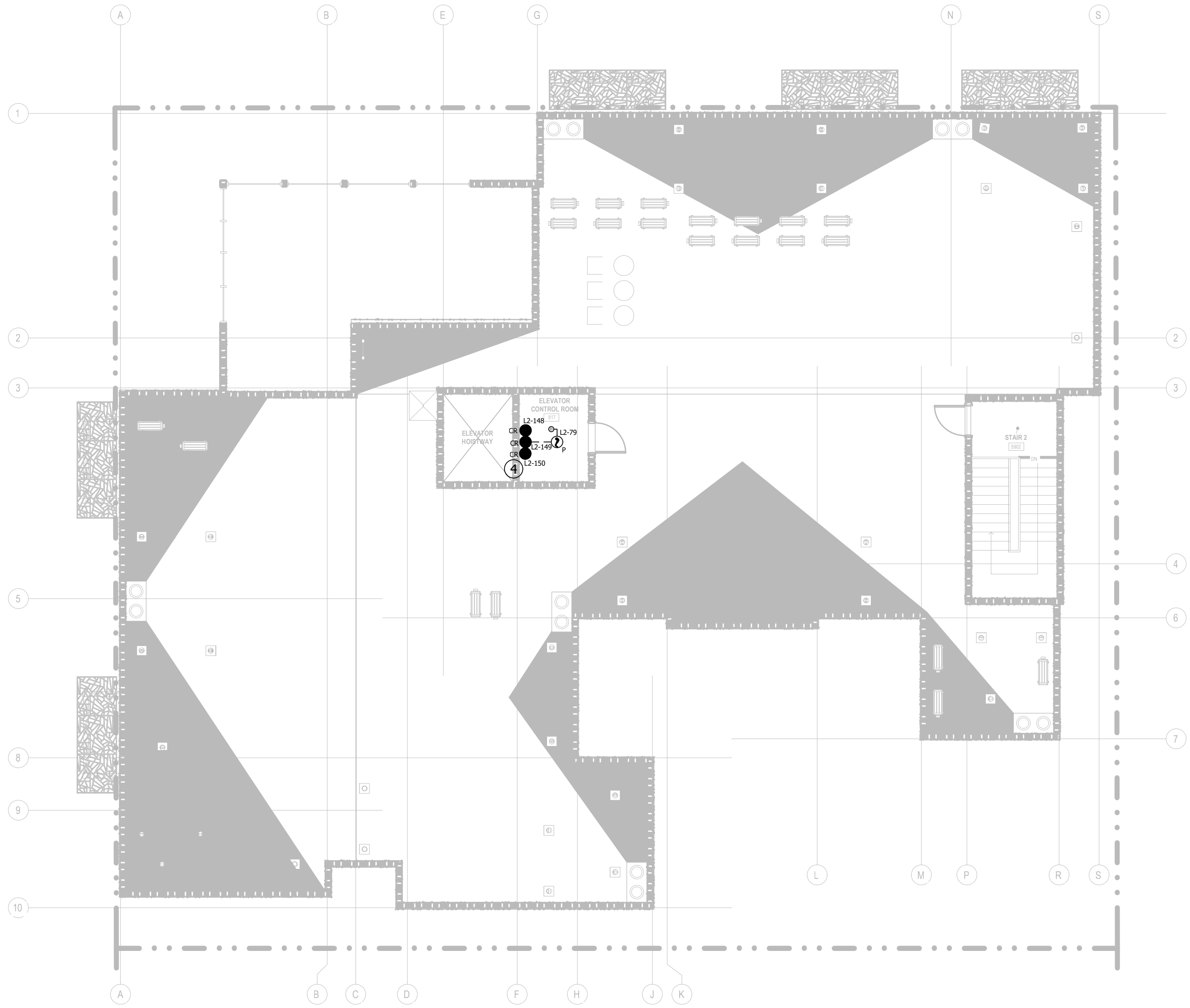
LEVEL 8 FLOOR PLAN

SAINT LUKE'S MULTIFAMILY

SCALE:

SHEET NO.

FA-8.0



ROOF PLAN

KEY NOTES

1. INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
2. 120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP / BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
3. INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72 7.7.2.
4. ELEVATOR RECALL AND FIREMEN'S HAT RELAY MODULES. FIELD VERIFY LOCATION. INSTALL NO MORE THAN 3'-0" AWAY FROM INTERFACE DEVICE.
5. SMOKE DETECTOR IS REQUIRED BY THE STATE ELEVATOR INSPECTOR.
6. FUTURE HEARING IMPAIRED J-BOX. SEE DETAIL ON SHEET FA-0.0.
7. FIELD VERIFY LOCATION OF EBRCS MONITOR MODULE.
8. FIRE SMOKE DAMPER ACTIVATION RELAY. FIELD VERIFY LOCATION WITH ELECTRIC CONTRACTOR.
9. FIELD VERIFY LOCATION OF SPRINKLER DEVICE.
10. FIELD VERIFY LOCATION OF BACKFLOW DEVICE. SEE SITE PLAN FOR LOCATION.
11. DUCT SMOKE DETECTORS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR DUCT SMOKE DETECTORS.
12. 120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-19.
13. 120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-21.
14. 120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R1-23.
15. 120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-15.
16. 120 VAC HARDWIRED CONNECTION FROM ELECTRICAL PANEL CIRCUIT R8-17.
17. SMOKE DETECTOR SHALL BE LOCATED NO MORE THAN 5 FEET FROM THE FIRE DOORS.
18. RELAY MODULE FOR SMOKE CURTAIN RELEASE.

FIRE ALARM SYSTEM DEVICE LEGEND

SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM SYSTEM
[FAC]	CELLULAR COMMUNICATOR
[RFA]	REMOTE ANN
[FDB]	FIRE ALARM DOCUMENT CABINET
[BPS]	BOOSTER POWER SUPPLY
[DHP]	DOOR HOLDER POWER SUPPLY
[SD]	SMOKE DETECTOR
[HD]	HEAT DETECTOR
[SB]	SOUNDER BASE
[P]	PULL STATION
[IM]	INPUT MODULE
[DIM]	DUAL INPUT MODULE
[CRM]	ADDRESSABLE RELAY MODULE
[DSD]	DUCT SMOKE DETECTOR
[MVR]	MULTI VOLTAGE RELAY
[TPG]	TEMPORAL PATTERN GENERATOR
[RPR]	REVERSE POLARITY RELAY
[SCR]	SIGNAL CONTROL RELAY
[HSC]	HORN-STROBE CEILING
[HSW]	HORN-STROBE WALL
[SC]	STROBE CEILING
[SW]	STROBE WALL
[SWP]	STROBE WALL, WP
[HSWP]	HORN-STROBE WALL, WP
[DH]	DOOR HOLDER
[STS]	SPRINKLER TAMPER SWITCH
[SFS]	SPRINKLER FLOW SWITCH
[SBFS]	SPRINKLER BACKFLOW SWITCH
[FSD]	FIRE SMOKE DAMPER

SMOKE DAMPER ACTUATION

- (M-1) WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.
- (M-2) WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
- (M-3) WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER.
- (M-4) WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.
- (M-5) WHERE A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

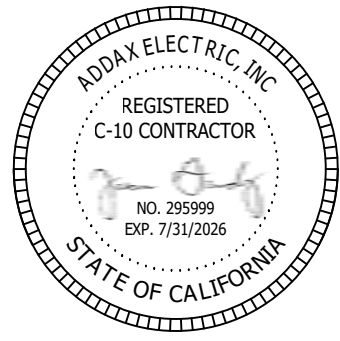
REFER TO 716.3.3.2 (CBC 2022)

WIRE LEGEND			
SYMBOL	PURPOSE	WIRE SIZE / TYPE	WIRING CLASS
---	SLC LOOP / ANN WIRE	(1)18/4 FPLR	CLASS B
---	SOUNDER BASE CIRCUITS	(1)14/2 FPLR	CLASS B
---	HORN-STROBE CIRCUITS	(1)14/2 FPLR	CLASS B
---	DOOR HOLDER POWER	(1)14/2 FPLR	CLASS D
---	UNDERGROUND WIRE	(1)18/4 THWN	--
---	ADA PRE-WIRE CIRCUIT	(1)14/2 FPLR	--

NOTE: WIRING METHODS SHALL COMPLY WITH CEC 760.170, 760.3, AND CHAPTER 3

SAINT LUKE'S
MULTIFAMILY
3727 30TH STREET
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REV.	DATE	DESCRIPTION	D.B.
1	09-04-2025	SDFD CORRECTIONS	
DESIGNER: FUEGO ENGINEERING & DESIGN P.O. BOX 88992 PORT SAINT LUKE, FL 34986 CARLOS OLIVERAS (519) 510-8637, NICET III #84003 carlos.oliveras@fuegoeng.com			
DESIGN:	CO	DRAWN:	
CHECKED:	JG	JOB NO:	
DATE:	06-02-2025	PLOT:	

SHEET TITLE:	
ROOF PLAN	
SAINT LUKE'S MULTIFAMILY	
FIRE ALARM SYSTEM	
SCALE:	0 2 4 6 8 10'
1/8" = 1'-0"	
SHEET NO.	FA-9.0