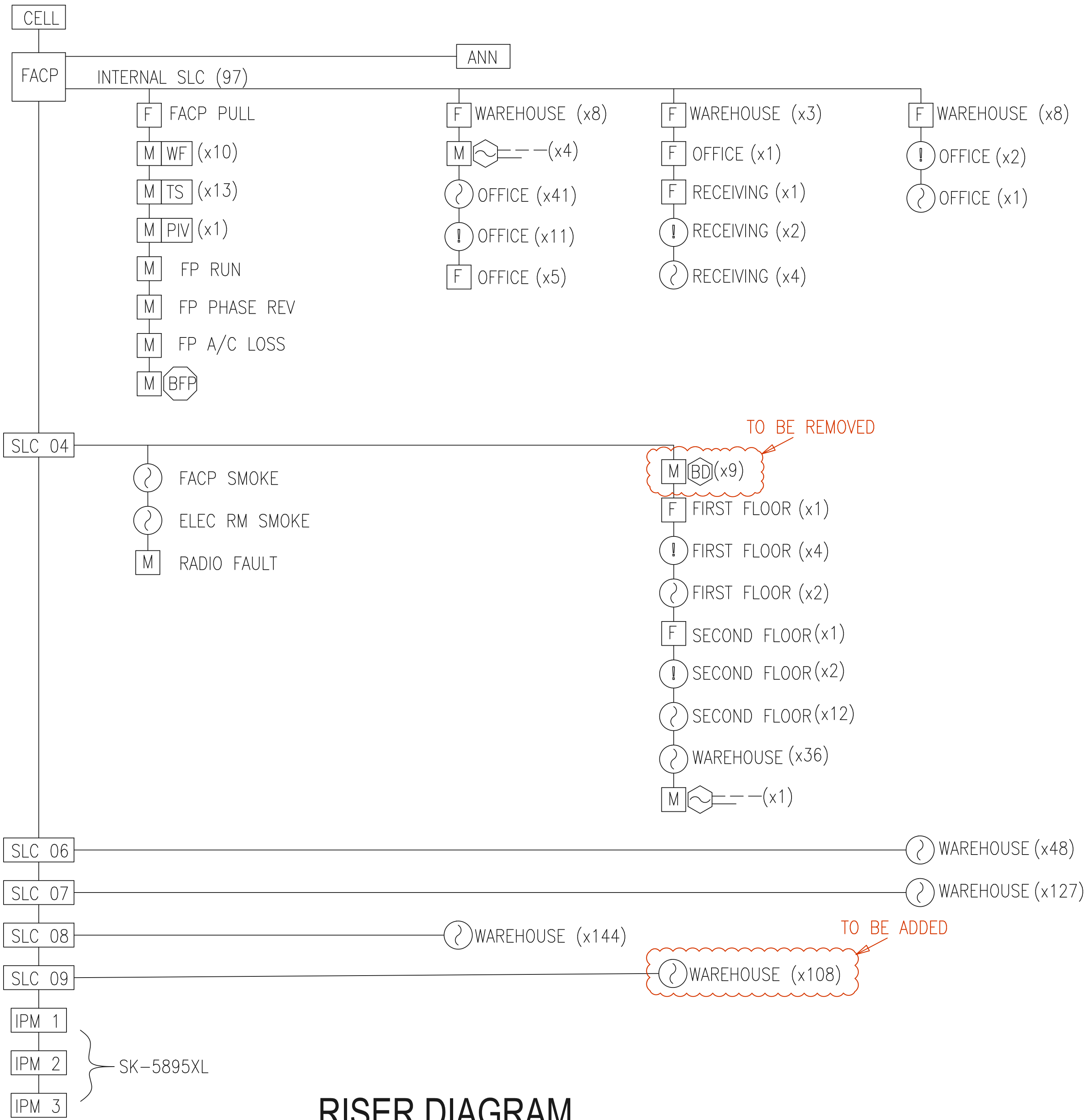
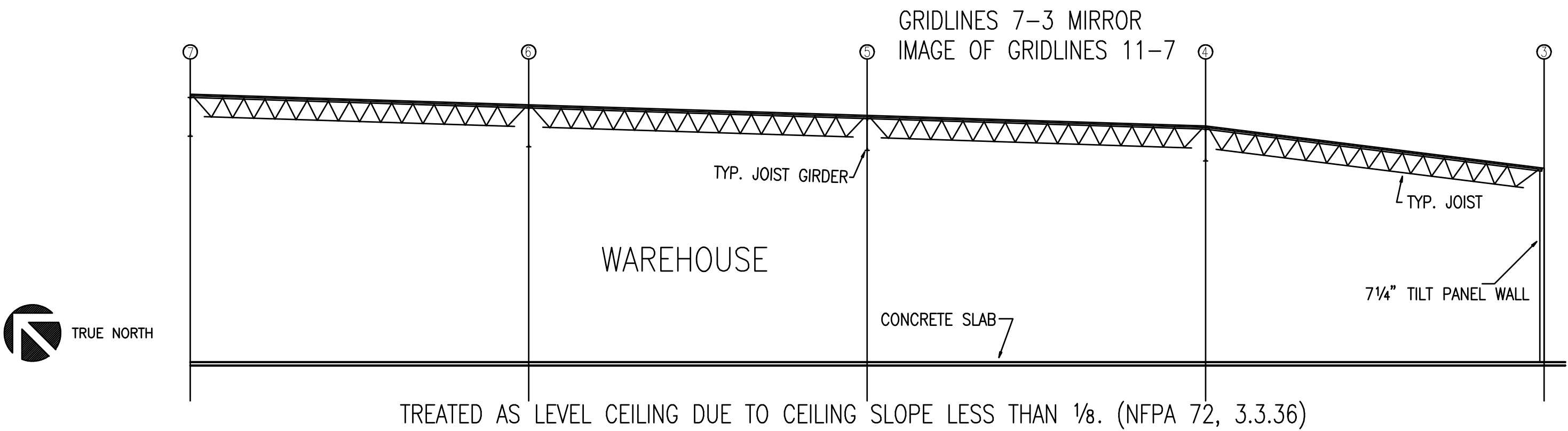




RISER DIAGRAM



ELEVATION VIEW (NORTH)

NOT TO SCALE

	MANUAL PULL STATION	SMOKE DETECTOR (SPD)	SMOKE DETECTOR (BEAM)	HEAT DETECTOR (DUCT)	WATERFLOW	TAMPER SWITCH	PUMP RUN	PUMP AC LOSS	SYSTEM PHASE REVERSAL	AC FAIL
DISPLAY OF AN ALARM EVENT AT THE FACP	X	X	X		X	X				
DISPLAY OF A SUPERVISORY EVENT AT THE FACP				X		X	X	X		
DISPLAY OF A TROUBLE EVENT AT THE FACP									X	X
TRANSMIT AN ALARM SIGNAL TO THE CENTRAL STATION	X	X	X		X	X				
TRANSMIT A SUPERVISORY SIGNAL TO THE CENTRAL STATION				X		X	X	X		
TRANSMIT A TROUBLE SIGNAL TO THE CENTRAL STATION									X	X
INITIATE BUILDING NOTIFICATION (A/V DEVICES)	X	X	X		X	X				

OPERATIONAL MATRIX

Honeywell SILENT KNIGHT		IntelliKnight 6820 Battery Calculation							
		Secondary Power Source Requirements							
		Standby Current (amps)				Secondary Alarm Current (amps)			
Device Type	Qty	Current Draw	Total		Qty	Current Draw	Total		
1. Control Panel									
6820 Control Panel	1	x	0.190000	=	0.190000	1	x	0.250000	= 0.250000
2. Addressable SLC Devices									
SK-PHOTO-W (-T)	525	x	0.000200	=	0.105000	525	x	0.000450	= 0.236250
SK-HEAT-W(HT) (ROR)	21	x	0.000200	=	0.004200	21	x	0.000450	= 0.009450
SK-MONITOR	34	x	0.000375	=	0.012750	34	x	0.000375	= 0.012750
SK-PULL-DA	29	x	0.000375	=	0.010875	29	x	0.000375	= 0.010875
6. Accessory Modules									
6815	5	x	0.078000	=	0.390000	5	x	0.078550	= 0.392750
5860	1	x	0.020000	=	0.020000	1	x	0.025000	= 0.025000
5895XL	3	x	0.010000	=	0.030000	3	x	0.010000	= 0.030000
Total Standby Load			0.762825	Total Alarm Load			0.967075		

		IntelliKnight 6820 Battery Calculation					
		Note 1: You are fully responsible for verifying these calculations. Note 2: Use the dropdowns in the yellow cells to enter values.					
Calculation in Total Sheet							
				Required Standby Time in Hours			
				24 Hours			
Standby Load Current		0.76283 Amps		x	24	=	18.308 AH
				Required Alarm Time in Minutes			
				5 Minutes			
Alarm Load Current (Amps)		0.96708 Amps		x	0.084	=	0.081 AH
Total Current Load						18.389 AH	
Multiply by the Derating Factor				1.2		= x 1.20	
Total Ampere Hours Required						22.07 AH	
Recommended Batteries:				BAT-12260 - 26AH Batteries			

POWER CALCULATIONS

SHEET INDEX		DESCRIPTION
SHEET	FA001	GENERAL SHEET
	FA002	RISER DIAGRAM AND CALCULATIONS
	FA101	SUITE 102 LAYOUT
	FA102	PRODUCT TYPICALS
REV		

STATE CERTIFICATION

JAMES FERNAND THOMPSON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
51195

REVISIONS

NO	DATE	BY	DESCRIPTION

CONTRACT WITH:

PROJECT NAME:
PUYALLUP 1
1601 INDUSTRIAL PARK WAY
SUITE 101
PUYALLUP, WA 98371

PATRIOT FIRE PROTECTION, INC.
2707 70TH AVENUE EAST
TACOMA, WA 98424

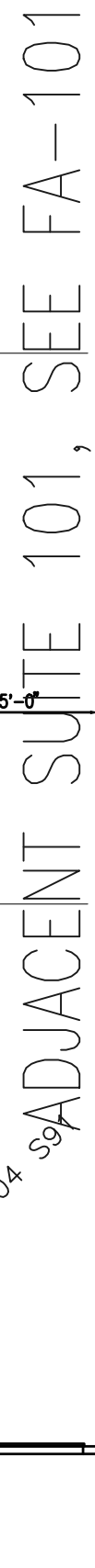
PATRIFFP099CF
WWW.PATRIOTFIRE.COM
Stevyn.Stuart@patriotfire.com

DESIGNER: STEVYN S
DATE: 11/08/23
JOB NO.: 16-3041

SHEET: 2 OF 4

FA-002

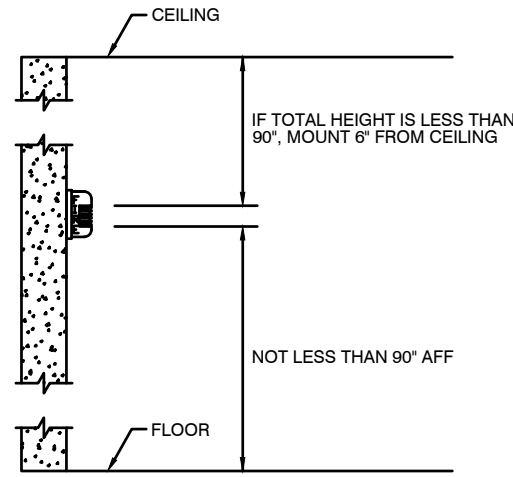
TEL: (253) 926-2290
FAX: (253) 922-6150



$\frac{1}{16}'' = 1' - 0''$

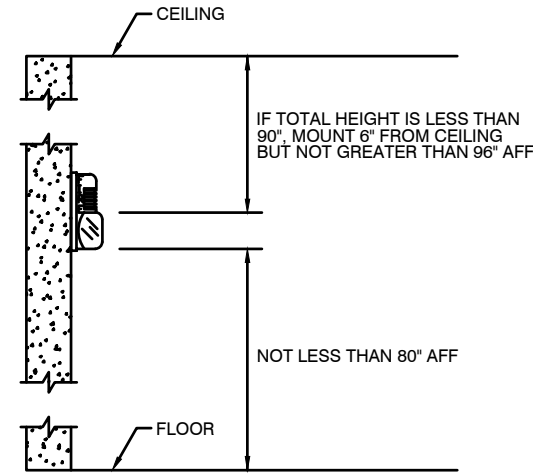


CONTRACT WITH:				PATRIOTFP090CF WWW.PATRIOTFIRE.COM Stevin.Stuart@patriotfire.com	
PROJECT NAME: PUYALLUP 1 SUITE 102 - 1601 INDUSTRIAL PARK WAY PUYALLUP, WA 98371		2707 70TH AVENUE EAST TACOMA, WA 98424		TEL: (253) 926-2290 FAX: (253) 922-6150	
DESIGNER		STUART		SHEET	
DATE		11/08/23		3 of 4	
JOB NO.		16-3041		FA-101	



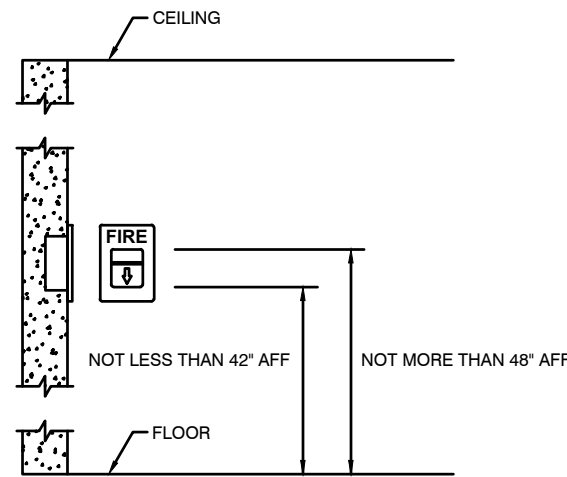
NFPA 72 2013, 18.4.8.1
WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90" AND BELOW THE FINISHED CEILINGS AT DISTANCES OF NOT LESS THAN 0".

A FIRE ALARM - HORN MOUNTING



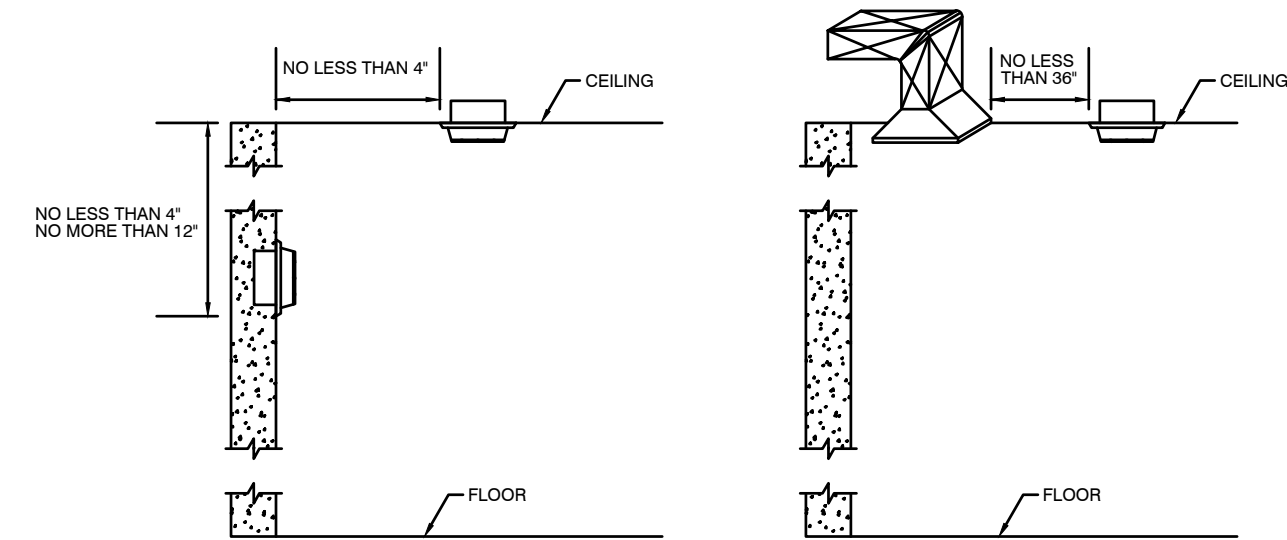
NFPA 72 2013, 18.5.5.1
WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 90" AND NOT GREATER THAN 90" ABOVE THE FINISHED FLOOR.

B FIRE ALARM - STROBE MOUNTING



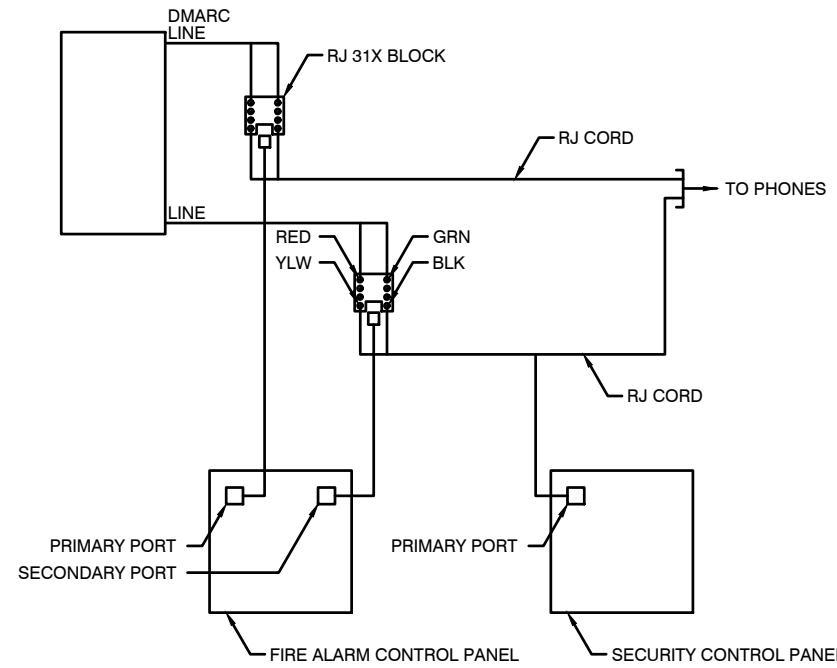
NFPA 72 2013, 11.14.5
THE OPERABLE PART OF A MANUALLY ACTUATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" FROM THE FINISHED FLOOR.

C FIRE ALARM - PULL STATION MOUNTING

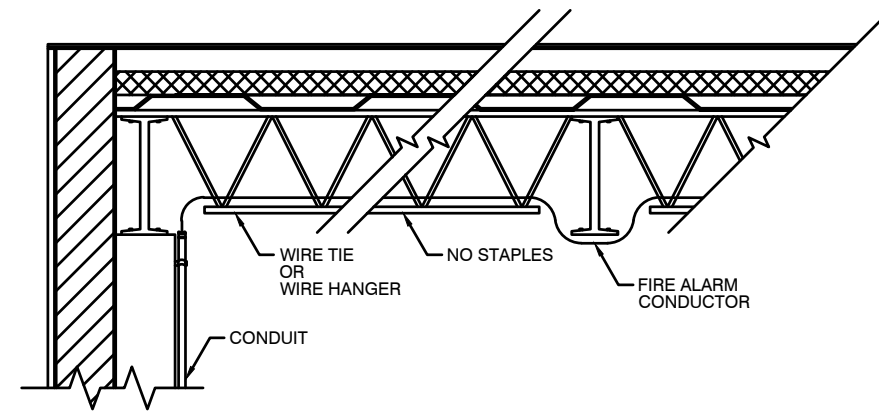


NFPA 72 2013, 17.6.3.1.3.1
DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4" FROM THE SIDEWALL OR ON THE SIDEWALLS BETWEEN 4" AND 12" FROM THE CEILING.

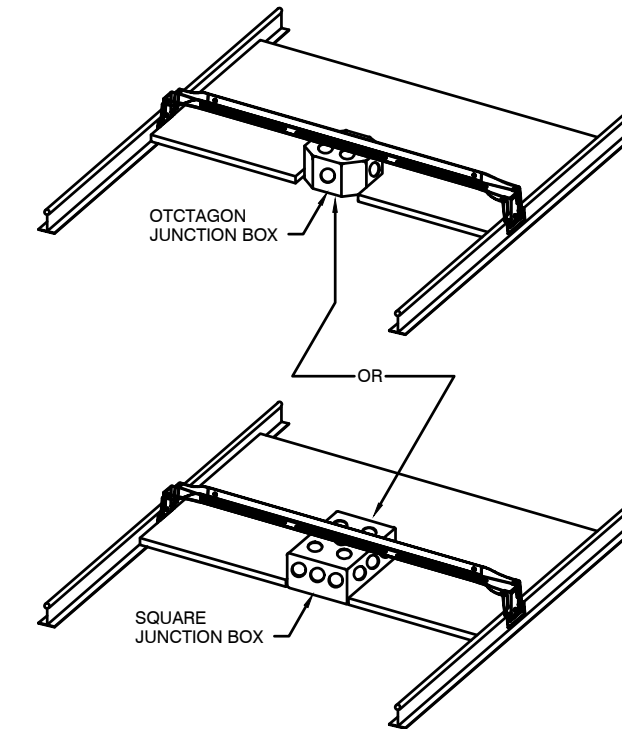
D FIRE ALARM - SMOKE & HEAT MOUNTING



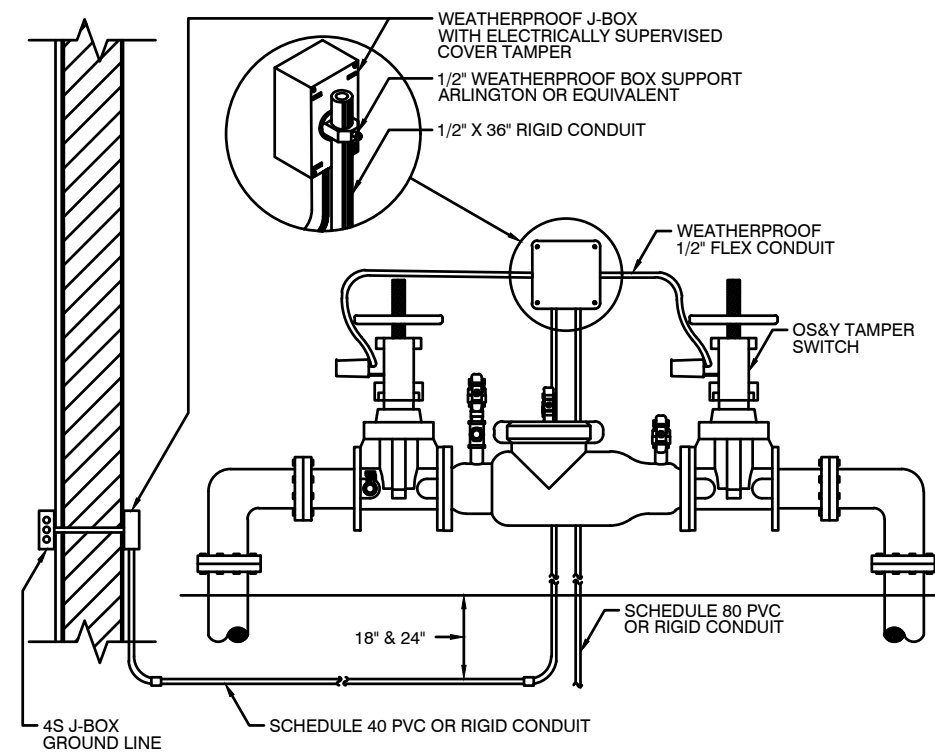
E FIRE ALARM - PHONE CONNECTION



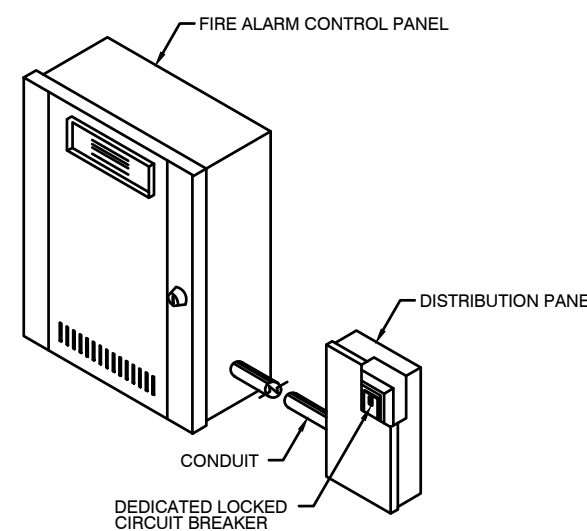
F FIRE ALARM - CEILING TO WALL TRANSITION AND OPEN WIRING



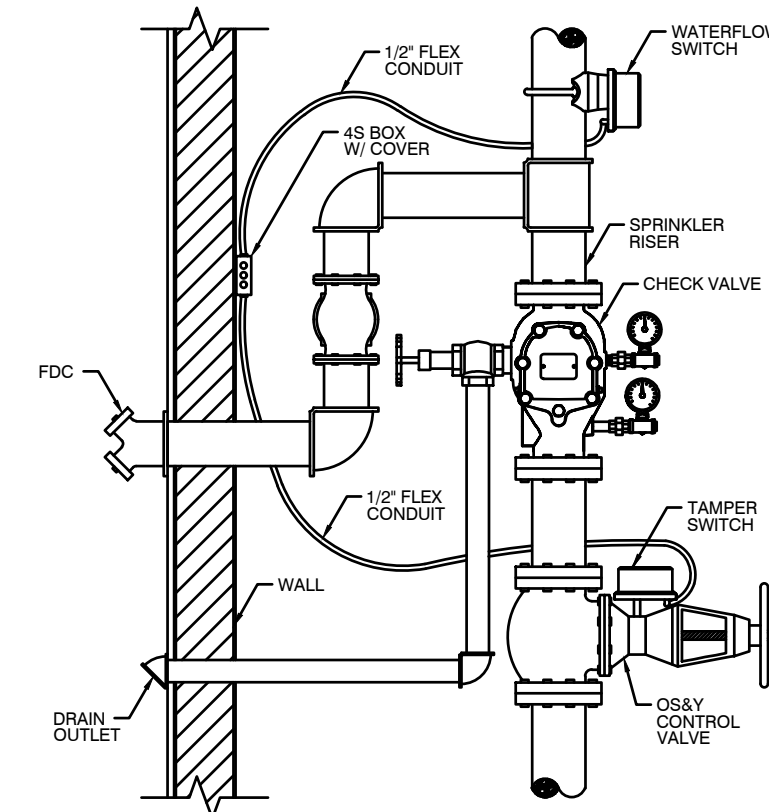
G FIRE ALARM - DROP CEILING & J BOX



H FIRE ALARM - DCVA TAMPER SWITCHES



I FIRE ALARM - POWER DISCONNECT



J FIRE ALARM - OS&Y TAMPER GATE VALVE

SHEET INDEX		DESCRIPTION		REV		SHEET	
		GENERAL SHEET				FA001	
		RISER DIAGRAM AND CALCULATIONS				FA002	
		SUITE 102 LAYOUT				FA101	
		PRODUCT TYPICALS				FA102	