## FIRE ALARM CONSTRUCTION DOCUMENT SET

# PUYALLUP MEDICAL CLINIC 1322 3RD ST SE, PUYALLUP WA FA25080

## SHEET INDEX

SHEET	REV.	DESCRIPTION				
FA001		GENERAL SHEET, LEGEND & NOTES				
FA101		DEVICE LOCATION VIEWS - BASEMENT & FIRST LEVEL				
FA102		DEVICE LOCATION VIEWS - SECOND & 3RD LEVEL				
FA501		SCHEDULES, POWER CALCULATIONS, RISER DIAGRAMS				
FA601		PRODUCT TYPICALS				

#### SHEET NAMING CONVENTION

	SHEET	DESCRIPTION				
	FA0XX	GENERAL SHEET, LEGEND & NOTES				
	FA1XX	DEVICE LOCATION VIEWS - FIRST FLOOR				
	FA5XX	SCHEDULES & RISER DIAGRAMS, POWER CALCULATIONS				
FA6XX PRODUCT TYPICALS						

#### **IDENTIFIER TYPES**

	TYPE	DESCRIPTION			
	√×	DEVICE IDENTIFIER - EXISTING, ADD, REPLACE, MOVE, DEMO			
	POINT OF PROTECTION IDENTIFIER / TYPE REFERENCE				
	/xx	REVISION IDENTIFIER			
è CAE		CABLE ID - SEE CABLE LEGEND			
	SHEET ID - SHEET DETAIL "A", "B", "C" / SHEET #XXXX				

## **DEVICE IDENTIFIERS**

TYPE	DESCRIPTION				
\[ \tag{\tau}	DEVICE EXISTING IDENTIFIER				
Ţ <sup>A</sup>	DEVICE ADD IDENTIFIER				
<b>↓</b> R	DEVICE REPLACE IDENTIFIER				
<b>↓</b> M	DEVICE MOVE IDENTIFIER				
\[ \footnote{\begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DEVICE DEMO IDENTIFIER				

### CABLE LEGEND

ID	AWG	COND	SHEILD	CLASS	ID	AWG	SHEILD	CLASS
Α	16	2	N	FPLR	AA			
В	16	4	N	FPLR	BB			
С	16	2	N	FPLP	CC			
D	16	4	N	FPLP	DD			
E	14	2	N	FPLR	EE			
F	14	4	N	FPLR	FF			
G	14	2	N	FPLP	GG			
Н	14	4	N	FPLP	HH			
1	12	2	N	FPLR	II			
J	12	4	N	FPLR	JJ			
K	12	2	N	FPLP	KK			
L	12	4	N	FPLP	LL			
М	16	2	N	TFFN	MM			
N	16	4	N	TFFN	NN			
0	16	2	N	THWN	00			
Р	16	4	N	THWN	PP			
Q					QQ			
U					UU			
R					RR			
S					SS			
Т					TT			
U					UU			
V					VV			
Х					XX			
Υ					YY			
Z					ZZ			

# SCOPE OF WORK

PROJECT DETAILS

GOOT E OF WORK	
	O REPLACE THE EXISTING FIRE ALARM CONTROL PANEL AND FIRE SIGNAL EXPANDER. TO ADD A NEW CELL COMMUNICATOR. IS ARE EXISTING. THIS IS NOT RELATED TO ANY TENANT IMPROVEMENT OR CONSTRUCTION.

**CURRENT ADOPTED CODE VERSION IFC 2021** 

### LISE & OCCUPANCY OF ASSISTEMATION

USE & OCCU	JSE & OCCUPANCY CLASSIFICATION						
☐ ASSEMBLY (A)		□ A-1	□ A <b>-</b> 2	□ A-3	□ A-4	□ A-5	
☐ BUSINESS	(B)						
☐ EDUCATIO	NAL (E)						
☐ FACTORY	& INDUSTRIAL (F)	☐ F-1	☐ F <b>-</b> 2				
☐ HIGH HAZ	ARD (H)	☐ H-1	☐ H <b>-</b> 2	☐ H-3	☐ H <b>-</b> 4	□ H-5	
☐ INSTITUTIO	ONAL (I)	□ I-1	□ I-2	□ I-3	□ I-4		
☐ MERCANTILE (M)							
☐ RESIDENTIAL (R)		☐ R-1	□ R <b>-</b> 2	□ R-3	□ R-4		
☐ STORAGE (S)		☐ S-1	□ S <b>-</b> 2	□ S-3	□ S-4		
☐ UTILITY & MISCELLANEOUS (U)							
BUILDING CO	ONSTRUCTION T	ΓΥΡΕS					
☐ TYPE I	☐ TYPE I-A	☐ TYPE I-B					
☐ TYPE II	☐ TYPE II-A	☐ TYPE II-B					
☐ TYPE III	☐ TYPE III-A	☐ TYPE III-B					
☐ TYPE IV							

### **GENERAL NOTES**

☐ TYPE V

- 1. INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH NFPA, LOCAL, AND STATE AHJ'S, NEC, AND CONTRACT DRAWINGS.
- 2. AS-BUILT DRAWINGS ARE REQUIRED AT THE TIME OF AHJ ACCEPTANCE. SMITH FIRE SYSTEMS REQUIRES ELECTRICAL RED LINES WITH IN TWO WEEKS PRIOR TO 3. AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE MADE WITH SMITH FIRE SYSTEMS PROJECT MANAGER. ALL SMITH FIRE SYSTEMS FIELD SERVICES MUST BE SCHEDULED WITH SMITH FIRE SYSTEMS PROJECT MANAGER WITH A MINIMUM OF TEN BUSINESS DAY'S ADVANCE NOTICE.
- 4. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT FOREMAN FOR USE
- 5. FIRE ALARM CONTROL PANEL SHALL NOT BE ENERGIZED WITHOUT THE PRESENCE OF A SMITH FIRE SYSTEMS ALARM TECHNICIAN.
- 6. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A UNDERWRITERS LISTED MONITORING STATION BEFORE AHJ'S TEST.
- 7. WIRE ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT INTENDED FOR ACTUAL CONDUIT ROUTING.
- 8. ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL CONTRACTOR PER NEC AND AHJ. 9. NO LINE VOLTAGE IN SAME CONDUIT AS POWER LIMITED FIRE ALARM CABLE.

☐ TYPE V-A ☐ TYPE V-B

☐ PARTIAL ☐ FULL

AUTOMATIC SPRINKLER PROTECTION

- 10. VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL AND ARCHITECTURAL PLANS. SCALE AND PLACE ALL DEVICES PER ELECTRICAL
- 11. FIELD VERIFY WATERFLOW SWITCHES, TAMPER SWITCHES, PRESSURE SWITCHES, SMOKE DAMPERS, AND DUCT DETECTOR LOCATIONS. 12. FIELD VERIFY ALL WIRING LOCATIONS AND REQUIREMENTS FOR HVAC AND FAN CONTROL.
- 13. SMOKE DETECTORS SHALL NOT BE LOCATED WITH IN 36" OF ANY AIR DIFFUSER.
- 14. WALL MOUNTED AUDIBLE/VISUAL APPLIANCES SHALL BE MOUNTED IN SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THE
- 15. THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 3'-6" AND NOT MORE THAN 4'-6" ABOVE THE FINISHED FLOOR.
- 16. NO DETECTOR SHALL BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION CLEAN-UP. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO CLEAN-UP MUST BE CLEANED OR REPLACED AND WILL BE INVOICED ON A TIME AND MATERIAL BASES.
- 17. A DEDICATED BRANCH CIRCUIT OF ONE OF THE FOLLOWING SHALL SUPPLY PRIMARY POWER.
- B) AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATIONS IS ON DUTY AT ALL TIMES. ý) AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT ARRANGED FOR COGENERATION WITH COMMERCIAL LIGHT AND POWER WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATION IS ON DUTY AT ALL TIMES.
- 18. ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS, SHORTS, GROUNDS, AND PROPER "END-TO-LINE" RESISTANCE. EACH CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO SMITH FIRE SYSTEMS ALARM TECHNICIAN UPON ARRIVAL ONSITE FOR STARTUP AND CHECKOUT.
- 19. NO TAPPING OF SIGNALING OR INITIATING ZONE CIRCUITS ARE ALLOWED. T-TAPPING OF STYLE 4 ADDRESSABLE CIRCUITS IS ALLOWED PROVIDING A SPLICE IS PROFESSIONALLY INSTALLED, POLARITY IS OBSERVED, AND SHIELDS ARE CONTINUOUS AND FREE OF GROUNDS. SHIELDS MUST BE TERMINATED AT THE FIRE ALARM CONTROL PANEL ONLY. CABLE SHIELDS SHALL BE SPLICED TOGETHER AT EVERY JUNCTION BETWEEN THE FIRE ALARM CONTROL PANEL AND THE LAST DEVICE ON EACH CABLE RUN. SHIELDS AND OTHER FIRE ALARM CONDUCTORS (EXCEPT POWER GROUNDS) SHALL BE INSULATED AND COMPLETELY FREE FROM CONDUIT OR EARTH GROUNDS. SHIELDS WILL BE TIED TO GROUND ONLY AT THE FIR ALARM CONTROL PANEL.

### DRAWING ACCEPTANCE

THIS DRAWING IS TO BE USED FOR THE PURPOSE OF PLACING AND LOCATING SMITH FIRE SYSTEMS FIRE ALARM DEVICES AND IS NOT BE USED FOR ANY OTHER

### RECORD DRAWINGS

ALL WORK PERFORMED IN THE FIELD SHALL BE ACCURATELY RECORDED ON THESE DRAWINGS AND RETURNED TO SMITH FIRE SYSTEMS CORPORATE OFFICE.

INSTALLATION

MONITORING COMPANY	
ACI ACCOUNT# 7545-1338	

LLA.	TION COMPANY	
	H FIRE SYSTEMS 54TH AVE E, TACOMA, WA 98424	

#### FIRE ALARM - PANELS

QTY	SYMBOL	DEVICE DESCRIPTION
1	FACP	FIRE ALARM CONTROL PANEL
	FM200	FM-200 CLEAN AGENT PANEL
	PAP	PRE-ACTION CONTROL PANEL
	EVAC	VOICE EVACUATION CONTROL PANEL
1	FSE	FIRE SIGNAL EXPANDER
	ANN	REMOTE ANNUNCIATOR
	UT2	SUBSCRIBER TERMINAL UNIT
1	CELL	CELL TRANSMITTER

#### EIDE ALADM MOTICICATION DEVICES

<u>FIRE</u>	<u>ALARM</u>	- NOTIFICATION DEVICES
QTY	SYMBOL	DEVICE DESCRIPTION
Е	Ø	WALL STROBE
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WALL STROBE WEATHERPROOF
Е	Q	CEILING STROBE
	Ŭ <sub>WP</sub>	CEILING STROBE WEATHERPROOF
Е	Z	WALL HORN-STROBE
	D\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WALL HORN-STROBE WEATHERPROOF
Е	Œ	CEILING HORN-STROBE
	HVP	CEILING HORN-STROBE WEATHERPROOF
		WALL HORN
	H	CEILING HORN
	M	WALL MINI-SPEAKER
	2	WALL SPEAKER
	(\$)	CEILING SPEAKER
		WALL SPEAKER/STROBE
	<i>(22)</i>	CEILING SPEAKER/STROBE
	С	WALL CHIME
	©	CEILING CHIME
	В	WALL BUZZER
	B	CEILING BUZZER
		BELL

### FIRE ALARM - DETECTORS

QTY	SYMBOL	DEVICE DESCRIPTION
Е	<b>⊘</b> P	SMOKE DETECTOR
	<b>O</b> AB	SMOKE DETECTOR ABOVE CEILING
	<b>⊘</b> BL	SMOKE DETECTOR BELOW CEILING
Е	<b>2</b>	DUCT SMOKE DETECTOR
	RTS	DUCT SMOKE DETECTOR REMOTE TEST SWITCH
	S <sub>BL</sub>	SMOKE BEAM TRANSMITTER
	<b>⊘</b> BR	SMOKE BEAM RECEIVER
Е	<b>⊕</b> <sub>F</sub>	135° FIXED TEMP HEAT DETECTOR
	$\bigcirc_{R}$	135° RATE OF RISE HEAT DETECTOR
	194 <b>*</b>	194° FIXED TEMP HEAT DETECTOR
	194* R	194° RATE OF RISE HEAT DETECTOR
	190° F	190° FIXED TEMP HEAT DETECTOR
	194*	194° LINE TYPE HEAT DETECTOR

### FIRE ALARM - MODULE / RELAY

QTY	SYMBOL	DEVICE DESCRIPTION
Е	F	MANUAL PULL STATION
	ММ	MINI MONITOR MODULE
	М	MONITOR MODULE
	M2	TWO POINT POINT MONITOR MODULE
	M4	FOUR POINT MONITOR MODULE
	R	RELAY MODULE
	(CR)	CONTROL RELAY MODULE
	IN	INPUT MODULE
	ID	FOUR POINT INPUT/OUTPUT RELAY MODULE
	IM	ISOLATION MODULE
	NM	NOTIFICATION MODULE
	SM	SYNC MODULE
	DH	DOOR HOLDER

### FIRE ALARM - SPRINKLER

QTY	SYMBOL	DEVICE DESCRIPTION
	$\otimes$	SPRINKLER RISER
	令	WATER GONG BELL
Е	FS	WATERFLOW SWITCH
	PS	PRESSURE SWITCH
E	TS	TAMPER SWITCH

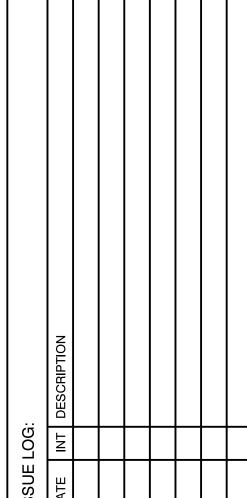
#### FIRE ALARM - MISCELLANEOUS

QTY	SYMBOL	DEVICE DESCRIPTION
	КН	KITCHEN HOOD
	$\Diamond$	JUNCTION BOX
		BATTERY

QTY	SYMBOL	DEVICE DESCRIPTION
	КН	KITCHEN HOOD
	$\Diamond$	JUNCTION BOX
		BATTERY

MEDIC/

2 3RD 'ALLU 'CEL#



CONSTRUCTION SET DESIGNER: SCOTT JERKE ISSUE DATE: | 8/21/25

PROJECT #: FA25080

FIRE ALARM

SHEET:

GENERAL SHEET **LEGEND & NOTES** 

City of Puyallup elopment & Permitting Service ISSUED PERMIT Building Planning Engineering Public Works Fire Traffic

COMPLIANCE DDrake 09/17/2025 10:45:09 AM

REVIEWED

FOR

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING

MUST BE POSTED ON THE JOB AT

READILY ACCESSIBLE LOCATION.

office or noncompliance with any

the local government.

ALL INSPECTIONS IN A VISIBLE AND

Approval of submitted plans is not an

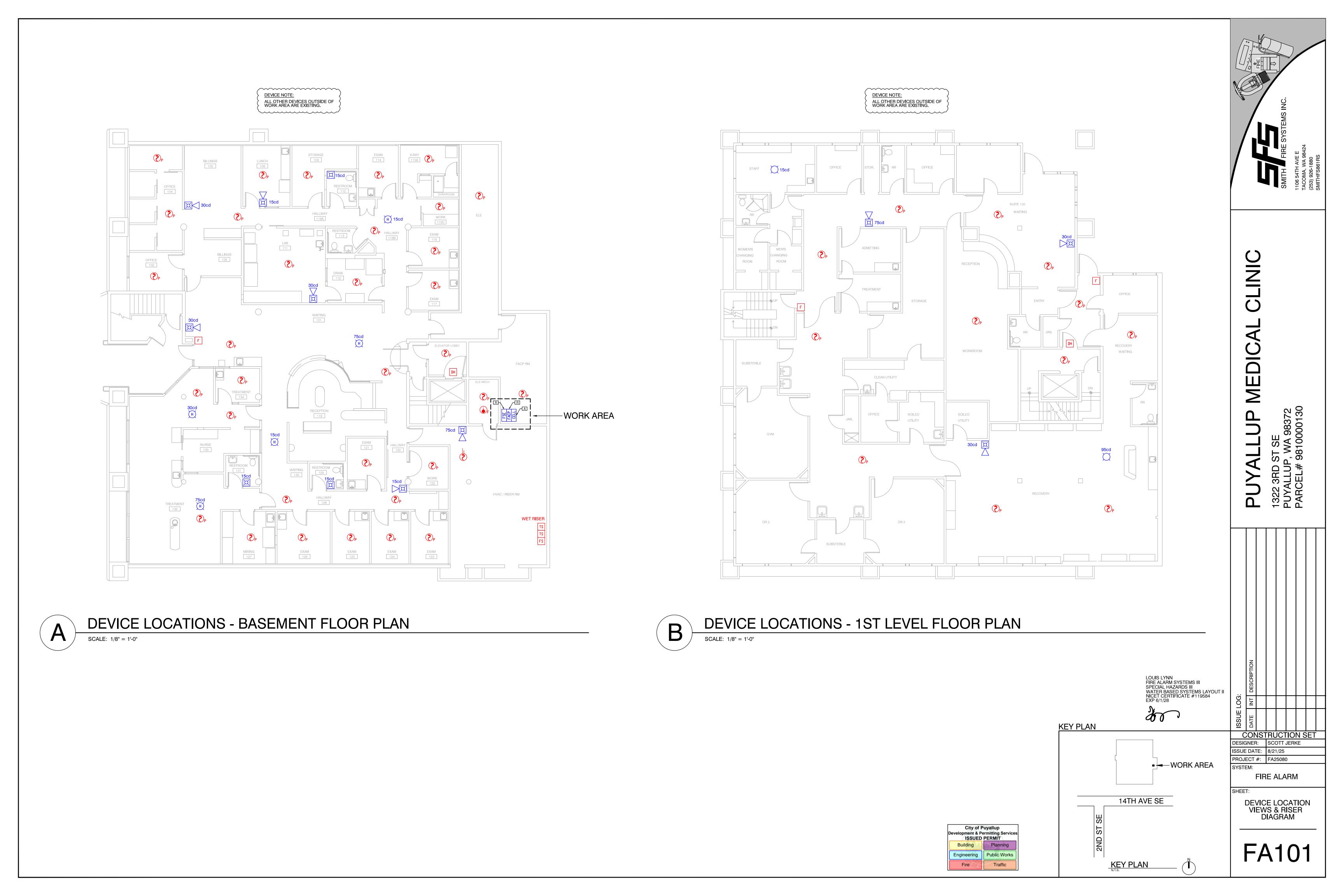
approval of omissions or oversight by this

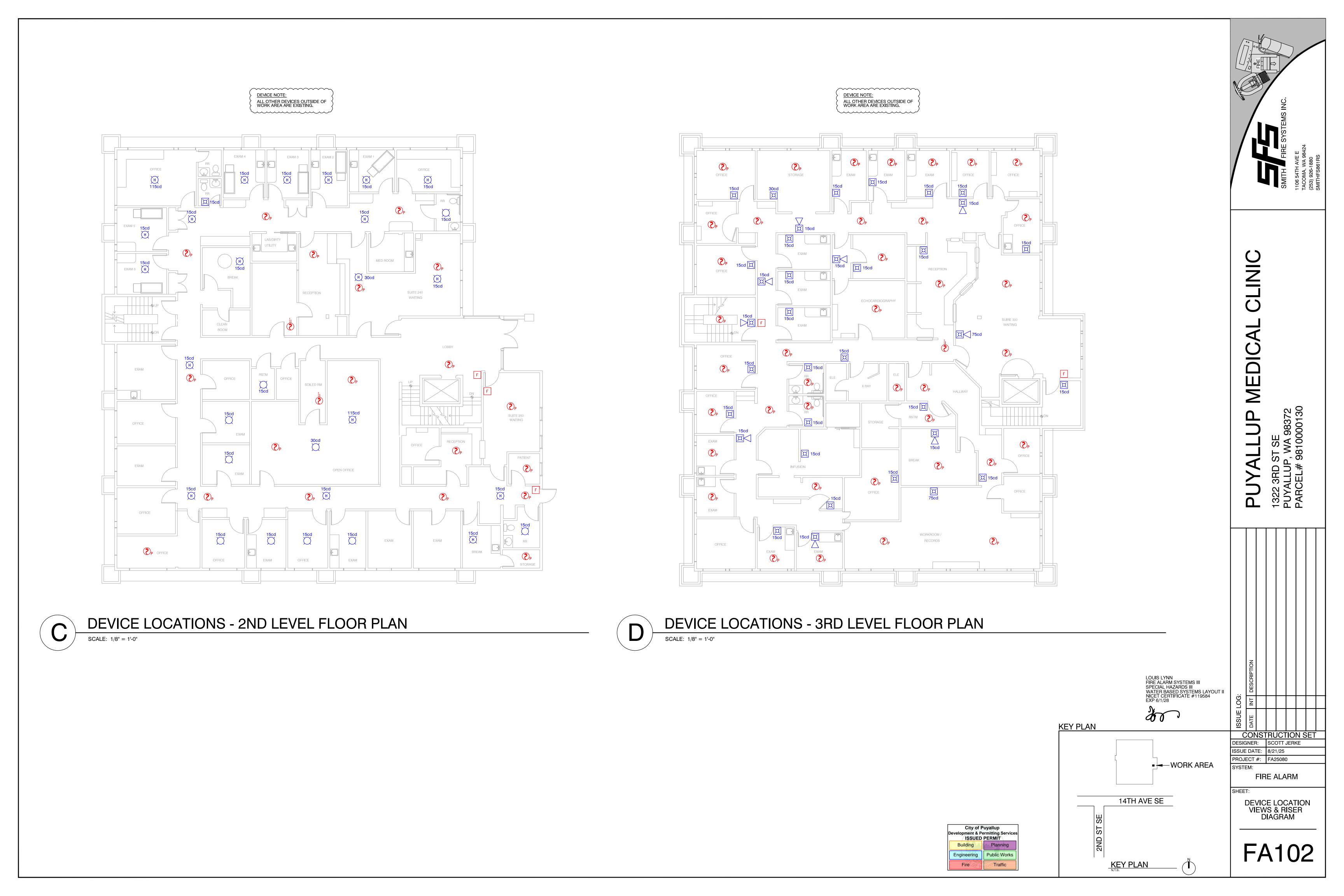
applicable regulations of local government.

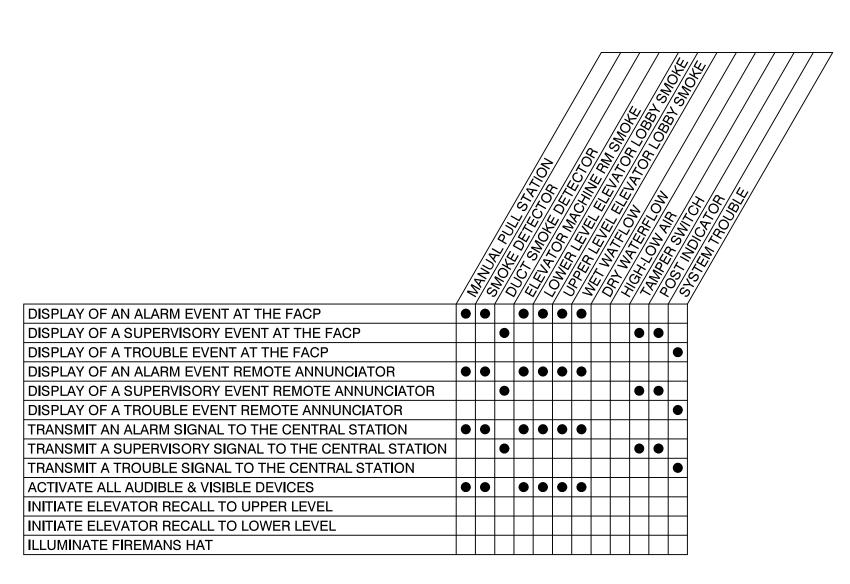
applicable building codes and regulations of

The contractor is responsible for making

sure that the building complies with all









# SCHEDULES - SEQUENCE OP OPERATIONS MATRIX

	FSE NAC-1	15cd 	15cd ————————————————————————————————————		<b>X</b>	30cd \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	30cd — — .102mA		<u> </u>	$\stackrel{\textstyle (H)}{\longleftarrow}$	$\widetilde{\mathbb{H}} -$	H)——	75cd H EOL 65mA							
	FSE NAC-1	15cd 	15cd 	15cd 		$\square$ —	30cd \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	75cd ————————————————————————————————————	15cc .082n	$\longrightarrow$	H	EOL								
	FACP NAC-1	15cd 	15cd .082mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	30cd H .114mA	115cd H EOL .250mA				
	FACP NAC-2	15cd 082mA	15cd 082mA	15cd 082mA	15cd 082mA	15cd 082mA	15cd .082mA	15cd 082mA	15cd 082mA	30cd .124mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	15cd H .088mA	115cd — H EOL .250mA				
	FACP NAC-3	15cd 	15cd ————————————————————————————————————	15cd 	15cd 	15cd 	15cd 	15cd 	15cd 	15cd 	15cd ————————————————————————————————————	15cd — — — — .074mA	15cd —	30cd 	15cd 	15cd 	15cd 	15cd 	15cd 	75cd ————————————————————————————————————
	FACP NAC-4	15cd  .074mA	15cd 	15cd — X .074mA	15cd  .074mA	15cd — — — .074mA	15cd — X .074mA	15cd 	15cd  .074mA	15cd ————————————————————————————————————	15cd —————— .074mA	15cd 	15cd —————— .074mA	75cd —————— .184mA	15cd 	15cd .080mA	15cd ————————————————————————————————————	EOL		
FSE FACP	CELL   -	wo	RK AREA																	

	NOTIFIER 32 I	TAGP	T	I	1
	5	Standby:	Ala	arm:	
Quantity	Amps	Total	Amps	Total	
1	0.01000	0.0100	0.25000	0.2500	
1	0.00000	0.0000	1.48800	1.4880	
1	0.00000	0.0000	1.47000	1.4700	
1	0.00000	0.0000	1.54500	1.5450	
1	0.00000	0.0000	1.31200	1.3120	
103	0.00030	0.0309	0.00650	0.6695	
ds:		0.041	Amps	6.735	Amps
0.041	Amps	For 24 Hours =	0.982	Amp-hours	
6.735	Amps	For 5 Minutes=	0.566	Amp-hours	
		20% Derating=	1.857	Amp-hours	
I System Curren	t Load:		1.857	Amp-hours	
	1 1 1 1 1 103 103	Quantity Amps  1 0.01000 1 0.00000 1 0.00000 1 0.00000 1 0.00000 1 0.00000	1 0.01000 0.0100 1 0.00000 0.0000 1 0.00000 0.0000 1 0.00000 0.0000 1 0.00000 0.0000 1 0.00000 0.0000 1 0.00030 0.0309  Is: 0.041 Amps For 24 Hours = 6.735 Amps For 5 Minutes= 20% Derating=	Quantity         Amps         Total         Amps           1         0.01000         0.0100         0.25000           1         0.00000         0.0000         1.48800           1         0.00000         0.0000         1.47000           1         0.00000         0.0000         1.54500           1         0.00000         0.0000         1.31200           103         0.00030         0.0309         0.00650           Is:         0.041 Amps         For 24 Hours =         0.982           6.735 Amps         For 5 Minutes =         0.566           20% Derating =         1.857	Quantity         Amps         Total         Amps         Total           1         0.01000         0.25000         0.2500           1         0.00000         0.0000         1.48800         1.4880           1         0.00000         0.0000         1.47000         1.4700           1         0.00000         0.0000         1.54500         1.5450           1         0.00000         0.0000         1.31200         1.3120           103         0.00030         0.0309         0.00650         0.6695           Is:         0.041 Amps         For 24 Hours =         0.982 Amp-hours           6.735 Amps         For 5 Minutes =         0.566 Amp-hours           20% Derating =         1.857 Amp-hours

		Volta	ge Drop Chart			
		FA28080 PUYA	ALLUP MEDICAL PI	LAN		
Panel	Circuit	Area	Total Wire Length	Amps	Voltage Drop	EOL Voltage
FACP	1	EXISTING DEVICES	800	1.488	3.000	21.000
FACP	2	EXISTING DEVICES	800	1.470	2.964	21.036
FACP	3	EXISTING DEVICES	800	1.545	3.115	20.885
FACP	4	EXISTING DEVICES	800	1.312	2.645	21.355

		OTTER PSI	MEDICAL CLINIC			
		OTIENTS	TOOTSE			
Current Load:			Standby:	Ala	arm:	
Device Type	Quantity	Amps	Total	Amps	Total	
Main System Board	1	0.07000	0.0700	0.27000	0.2700	
NAC 1	1	0.00000	0.0000	1.06500	1.0650	
NAC 2	1	0.00000	0.0000	1.10400	1.1040	
NAC 3	0	0.00000	0.0000	0.00000	0.0000	
NAC 4	0	0.00000	0.0000	0.00000	0.0000	
NAC 5	0	0.00000	0.0000	0.00000	0.0000	
NAC 6	0	0.00000	0.0000	0.00000	0.0000	
Total Panel Loads:			0.070	Amps	2.439	Amps
Standby Current Load:	0.070	Amps	For 24 Hours =	1.680	Amp-hours	
Alarm Current Load:	2.439	Amps	For 5 Minutes=	0.205	Amp-hours	
			20% Derating=	2.262	Amp-hours	
Total S	ystem Curren	t Load:		2.262	Amp-hours	
Battery Pair to be Used:	12VDC		Amp-hours	8		

Voltage Drop Chart										
FA25080 PUYALLUP MEDICAL CLINIC										
Panel	Circuit	Area	Total Wire Length	Amps	Voltage Drop	EOL Voltage				
FSE	1	EXISTING DEVICES	800	1.065	2.147	21.853				
FSE	2	EXISTING DEVICES	800	1.104	2.226	21.774				

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

**C** 

POWER CALCULATIONS

CONSTRUCTION SET

DESIGNER: SCOTT JERKE

ISSUE DATE: 8/21/25

PROJECT #: FA25080

SYSTEM:

MEDIC/

FIRE ALARM

SHEET:

SCHEDULES & CALCULATIONS

FA501

B

RISER DIAGRAMS

ISSUE DATE: 8/21/25
PROJECT #: FA25080

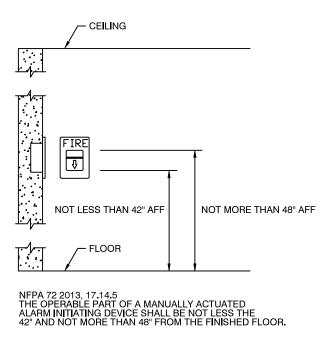
FIRE ALARM

PRODUCT TYPICALS

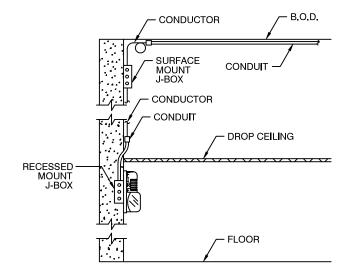
FA601

NOT LESS THAN 90" AFF 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 6".

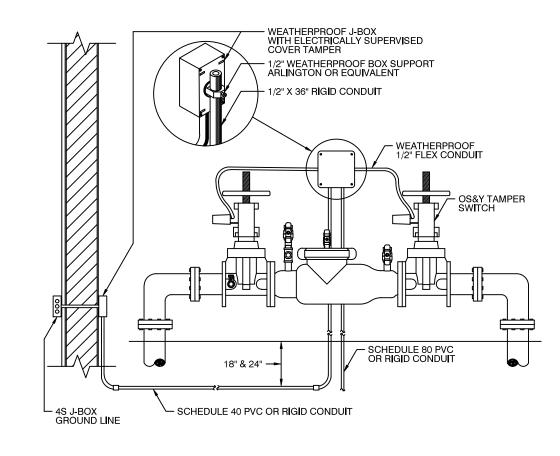
# FIRE ALARM - HORN MOUNTING



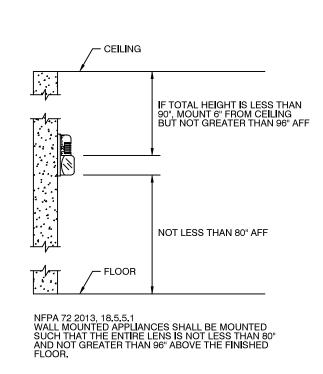
# FIRE ALARM - PULL STATION MOUNTING



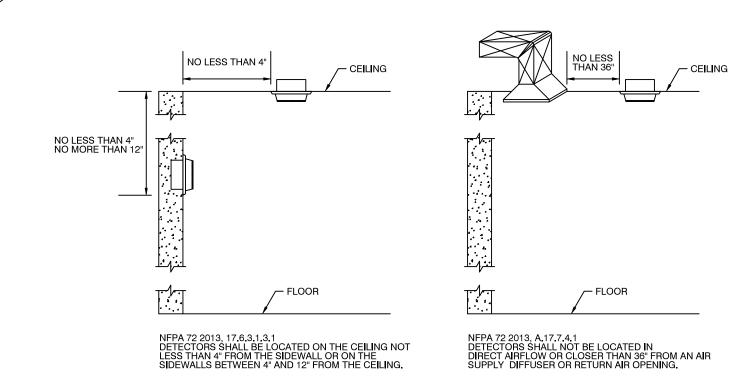
# FIRE ALARM - CONDUIT WALL & CEILING



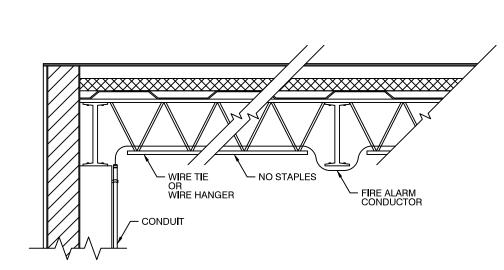
FIRE ALARM - DCVA TAMPER SWITCHES



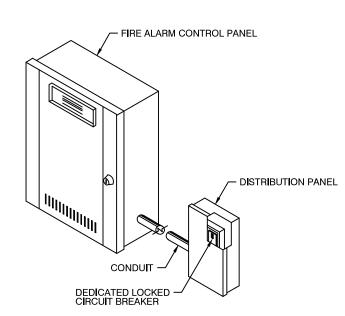
# FIRE ALARM - STROBE MOUNTING



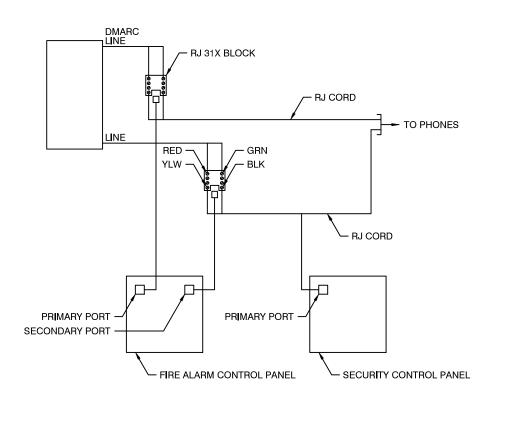
FIRE ALARM - SMOKE & HEAT MOUNTING



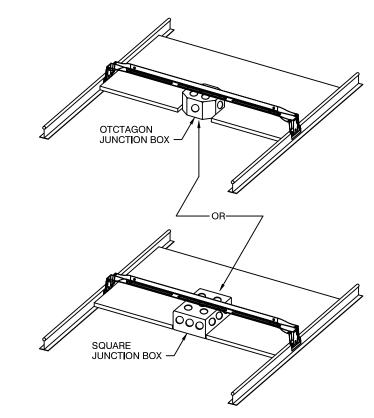
FIRE ALARM - CEILING TO WALL TRANSITION AND OPEN WIRING



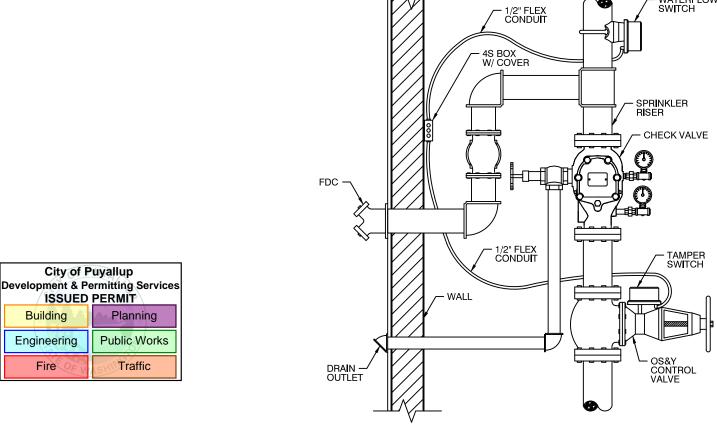
FIRE ALARM - POWER DISCONNECT



FIRE ALARM - PHONE CONNECTION



FIRE ALARM - DROP CEILING & J BOX



FIRE ALARM - OS&Y TAMPER GATE VALVE

