

# FIRE ALARM CONSTRUCTION DOCUMENT SET

## LSL OFFICE TI 302 33RD ST SE, PUYALLUP WA 98372 FA25075



SHEET INDEX		
SHEET	REV.	DESCRIPTION
FA001		GENERAL SHEET, LEGEND & NOTES
FA101		DEVICE LOCATION VIEWS - FIRST 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
	REVISION IDENTIFIER
	CABLE ID - SEE CABLE LEGEND
	SHEET ID - SHEET DETAIL "A", "B", "C" / SHEET #XXXX

DEVICE IDENTIFIERS	
TYPE	DESCRIPTION
	DEVICE EXISTING IDENTIFIER
	DEVICE ADD IDENTIFIER
	DEVICE REPLACE IDENTIFIER
	DEVICE MOVE IDENTIFIER
	DEVICE DEMO IDENTIFIER

CABLE LEGEND								
ID	AWG	COND	SHEILD	CLASS	ID	AWG	SHEILD	CLASS
A	16	2	N	FPLR	AA			
B	16	4	N	FPLR	BB			
C	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			
H	14	4	N	FPLP	HH			
I	12	2	N	FPLR	II			
J	12	4	N	FPLR	JJ			
K	12	2	N	FPLP	KK			
L	12	4	N	FPLP	LL			
M	16	2	N	TFFN	MM			
N	16	4	N	TFFN	NN			
O	16	2	N	THWN	OO			
P	16	4	N	THWN	PP			
Q					QQ			
U					UU			
R					RR			
S					SS			
T					TT			
U					UU			
V					VV			
X					XX			
Y					YY			
Z					ZZ			

PROJECT DETAILS	
<b>SCOPE OF WORK</b>	
THE SCOPE OF THIS PROJECT IS TO RELOCATE (1) NOTIFICATION DEVICE AND (1) SMOKE DETECTOR, ALSO TO ADD (2) ADDITIONAL SMOKE DETECTORS. THIS WILL BE FOR A TENANT IMPROVEMENT.	
<b>SYSTEM CODES</b>	
CURRENT ADOPTED CODE VERSION IFC 2021	
<b>USE &amp; OCCUPANCY CLASSIFICATION</b>	
<input type="checkbox"/> ASSEMBLY (A) <input type="checkbox"/> A-1 <input type="checkbox"/> A-2 <input type="checkbox"/> A-3 <input type="checkbox"/> A-4 <input type="checkbox"/> A-5 <input checked="" type="checkbox"/> BUSINESS (B) <input type="checkbox"/> EDUCATIONAL (E) <input type="checkbox"/> FACTORY & INDUSTRIAL (F) <input type="checkbox"/> F-1 <input type="checkbox"/> F-2 <input type="checkbox"/> HIGH HAZARD (H) <input type="checkbox"/> H-1 <input type="checkbox"/> H-2 <input type="checkbox"/> H-3 <input type="checkbox"/> H-4 <input type="checkbox"/> H-5 <input type="checkbox"/> INSTITUTIONAL (I) <input type="checkbox"/> I-1 <input type="checkbox"/> I-2 <input type="checkbox"/> I-3 <input type="checkbox"/> I-4 <input type="checkbox"/> MERCANTILE (M) <input type="checkbox"/> RESIDENTIAL (R) <input type="checkbox"/> R-1 <input type="checkbox"/> R-2 <input type="checkbox"/> R-3 <input type="checkbox"/> R-4 <input type="checkbox"/> STORAGE (S) <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> S-4 <input type="checkbox"/> UTILITY & MISCELLANEOUS (U)	
<b>BUILDING CONSTRUCTION TYPES</b>	
<input type="checkbox"/> TYPE I <input type="checkbox"/> TYPE I-A <input type="checkbox"/> TYPE I-B <input type="checkbox"/> TYPE II <input type="checkbox"/> TYPE II-A <input type="checkbox"/> TYPE II-B <input type="checkbox"/> TYPE III <input type="checkbox"/> TYPE III-A <input type="checkbox"/> TYPE III-B <input type="checkbox"/> TYPE IV <input type="checkbox"/> TYPE V <input type="checkbox"/> TYPE V-A <input type="checkbox"/> TYPE V-B	
<b>AUTOMATIC SPRINKLER PROTECTION</b>	
<input type="checkbox"/> NO <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL	

GENERAL NOTES	
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 PRIOR TO AHJ TESTS.	
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 DAYS ADVANCE NOTICE.	
4. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT FOREMAN FOR USE BY SMITH FIRE SYSTEMS ALARM TECHNICIAN.	
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.	
10. VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL AND ARCHITECTURAL PLANS. SCALE AND PLACE ALL DEVICES PER ELECTRICAL AND ARCHITECTURAL PLANS.	
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 96" ABOVE FINISHED FLOOR.	
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. A) COMMERCIAL LIGHT AND POWER B) AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATIONS IS ON DUTY AT ALL TIMES. C) 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 FIRE 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 PURPOSES.	

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

MONITORING COMPANY	INSTALLATION COMPANY
ACI 4500 3RD AVE, LACEY WA 98503 ACCOUNT# LACAES1E028	SMITH FIRE SYSTEMS 1108 54TH AVE E, TACOMA, WA 98424

FIRE ALARM - PANELS		
QTY	SYMBOL	DEVICE DESCRIPTION
E		FIRE ALARM CONTROL PANEL
		FM-200 CLEAN AGENT PANEL
		PRE-ACTION CONTROL PANEL
		VOICE EVACUATION CONTROL PANEL
		FIRE SIGNAL EXPANDER
		REMOTE ANNUNCIATOR
		SUBSCRIBER TERMINAL UNIT
		AES TRANSMITTER

FIRE ALARM - NOTIFICATION DEVICES		
QTY	SYMBOL	DEVICE DESCRIPTION
		WALL STROBE
		WALL STROBE WEATHERPROOF
		CEILING STROBE
		CEILING STROBE WEATHERPROOF
		WALL HORN-STROBE
		WALL HORN-STROBE WEATHERPROOF
E		CEILING HORN-STROBE
		CEILING HORN-STROBE WEATHERPROOF
		WALL HORN
		CEILING HORN
		WALL MINI-SPEAKER
		WALL SPEAKER
		CEILING SPEAKER
		WALL SPEAKER-STROBE
		CEILING SPEAKER-STROBE
		WALL CHIME
		CEILING CHIME
		WALL BUZZER
		CEILING BUZZER
		BELL

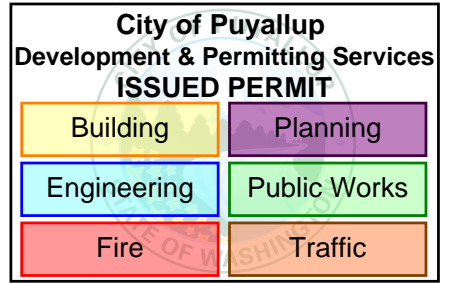
FIRE ALARM - DETECTORS		
QTY	SYMBOL	DEVICE DESCRIPTION
2		SMOKE DETECTOR
		SMOKE DETECTOR ABOVE CEILING
		SMOKE DETECTOR BELOW CEILING
		DUCT SMOKE DETECTOR
		DUCT SMOKE DETECTOR REMOTE TEST SWITCH
		SMOKE BEAM TRANSMITTER
		SMOKE BEAM RECEIVER
		135° FIXED TEMP HEAT DETECTOR
		135° RATE OF RISE HEAT DETECTOR
		194° FIXED TEMP HEAT DETECTOR
		194° RATE OF RISE HEAT DETECTOR
		190° FIXED TEMP HEAT DETECTOR
		194° LINE TYPE HEAT DETECTOR

FIRE ALARM - MODULE / RELAY		
QTY	SYMBOL	DEVICE DESCRIPTION
		MANUAL PULL STATION
		MINI MONITOR MODULE
		MONITOR MODULE
		TWO POINT POINT MONITOR MODULE
		FOUR POINT MONITOR MODULE
		RELAY MODULE
		CONTROL RELAY MODULE
		INPUT MODULE
		FOUR POINT INPUT/OUTPUT RELAY MODULE
		ISOLATION MODULE
		NOTIFICATION MODULE
		SYNC MODULE
		DOOR HOLDER

FIRE ALARM - SPRINKLER		
QTY	SYMBOL	DEVICE DESCRIPTION
		SPRINKLER RISER
		WATER GONG BELL
		WATERFLOW SWITCH
		PRESSURE SWITCH
		TAMPER SWITCH

FIRE ALARM - FIREMAN'S PHONE		
QTY	SYMBOL	DEVICE DESCRIPTION
		ELEVATOR STATUS RECALL
		FIRE FIGHTERS PHONE
		FIRE FIGHTERS PHONE JACK
		FIRE FIGHTERS HANDSET

FIRE ALARM - MISCELLANEOUS		
QTY	SYMBOL	DEVICE DESCRIPTION
		KITCHEN HOOD
		JUNCTION BOX
		BATTERY



**LSL OFFICE TI**  
 302 33RD ST SE  
 PUYALLUP, WA 98372  
 PARCEL# 1200283547

ISSUE LOG:	
DATE	DESCRIPTION

CONSTRUCTION SET	
DESIGNER:	SCOTT JERKE
ISSUE DATE:	8/4/25
PROJECT #:	FA25075
SYSTEM:	FIRE ALARM
SHEET:	GENERAL SHEET LEGEND & NOTES
<b>FA001</b>	

**City of Puyallup**  
**Fire**  
**REVIEWED FOR COMPLIANCE**

DDrake  
08/22/2025  
11:17:29 AM

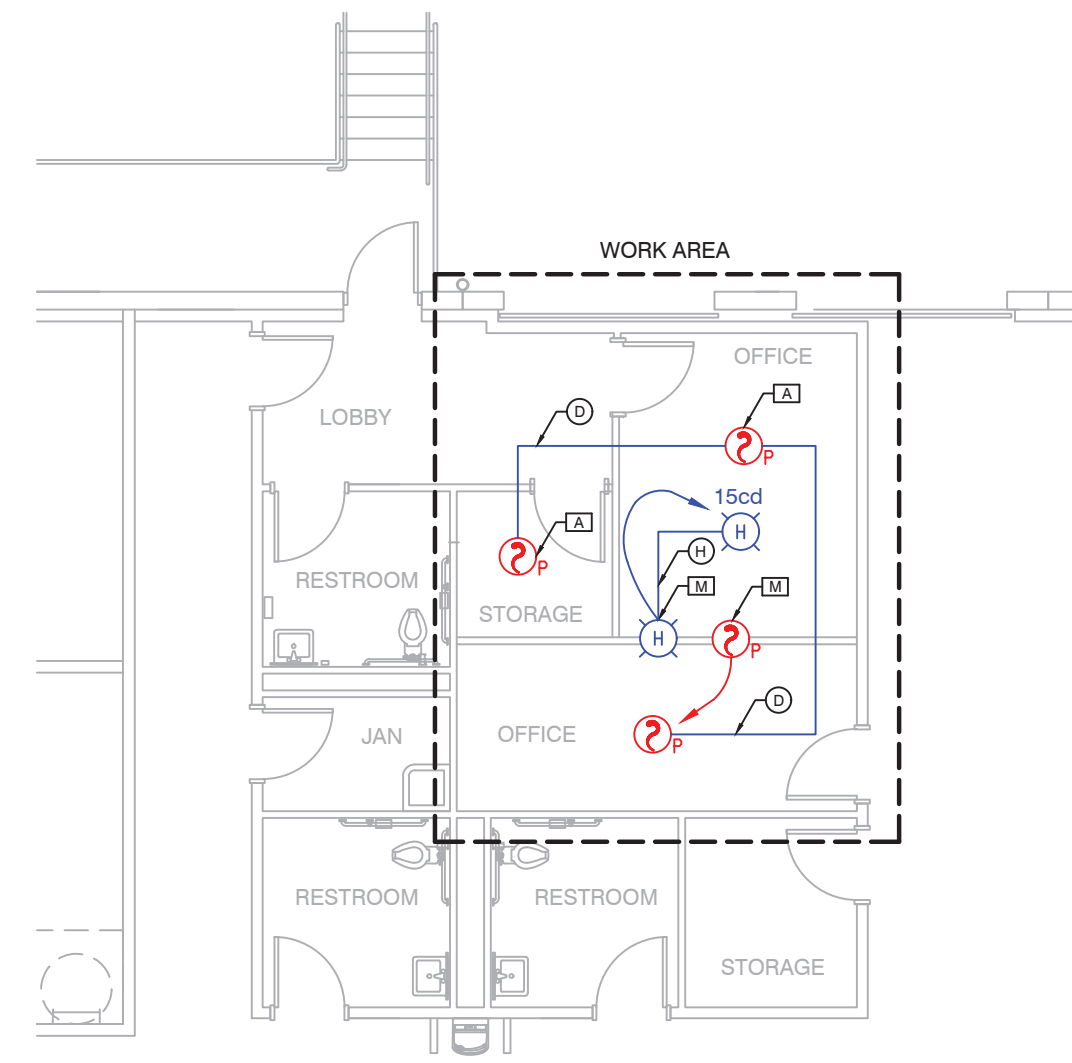
THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.



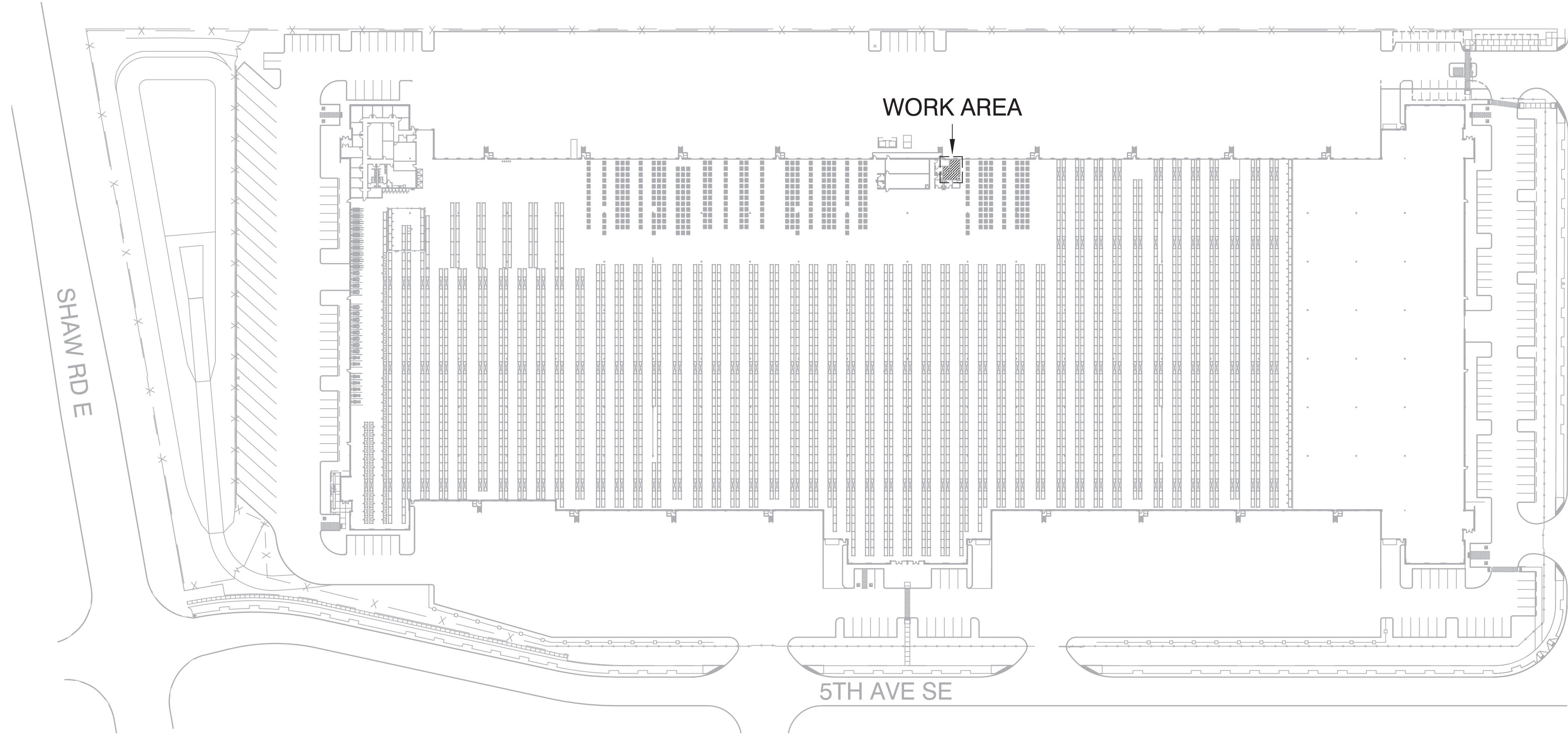
City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



**A** DEVICE LOCATIONS - FLOOR PLAN

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



**SITE PLAN**

SCALE: N.T.S.

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DESIGNER: SCOTT JERKE  
ISSUE DATE: 8/4/25  
PROJECT #: FA25075  
SYSTEM:  
**FIRE ALARM**

SHEET:  
**DEVICE LOCATION  
VIEWS & RISER  
DIAGRAM**

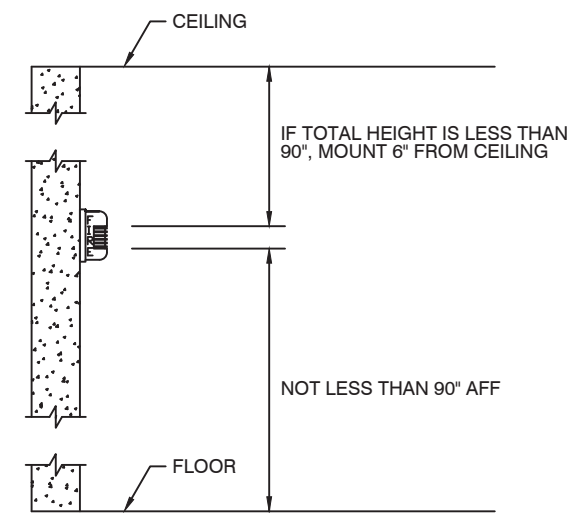
LOUIS LYNN  
FIRE ALARM SYSTEMS III  
SPECIAL HAZARDS III  
WATER BASED SYSTEMS LAYOUT II  
NICET CERTIFICATE #119584  
EXP 6/1/28



**FA101**

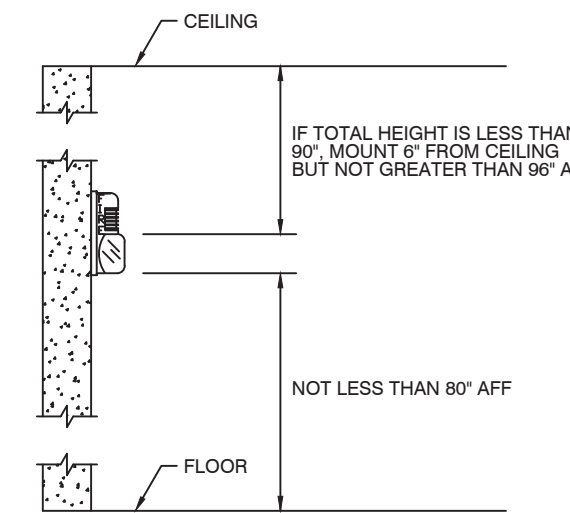






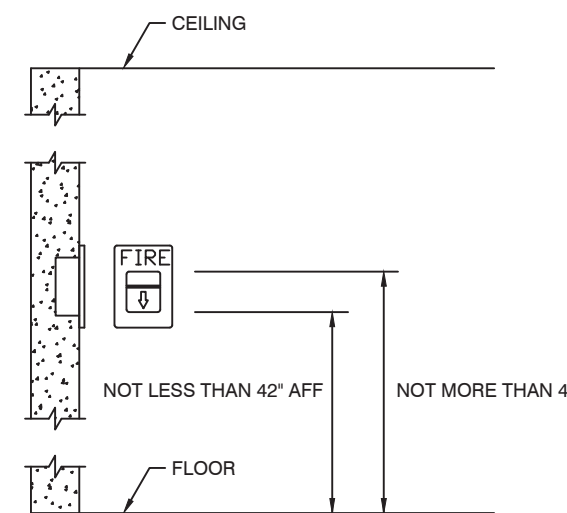
NFPA 72 2013, 18.4.8.1  
WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90" AND BELOW THE FINISHED CEILING AT DISTANCES OF NOT LESS THAN 6".

**A** FIRE ALARM - HORN MOUNTING



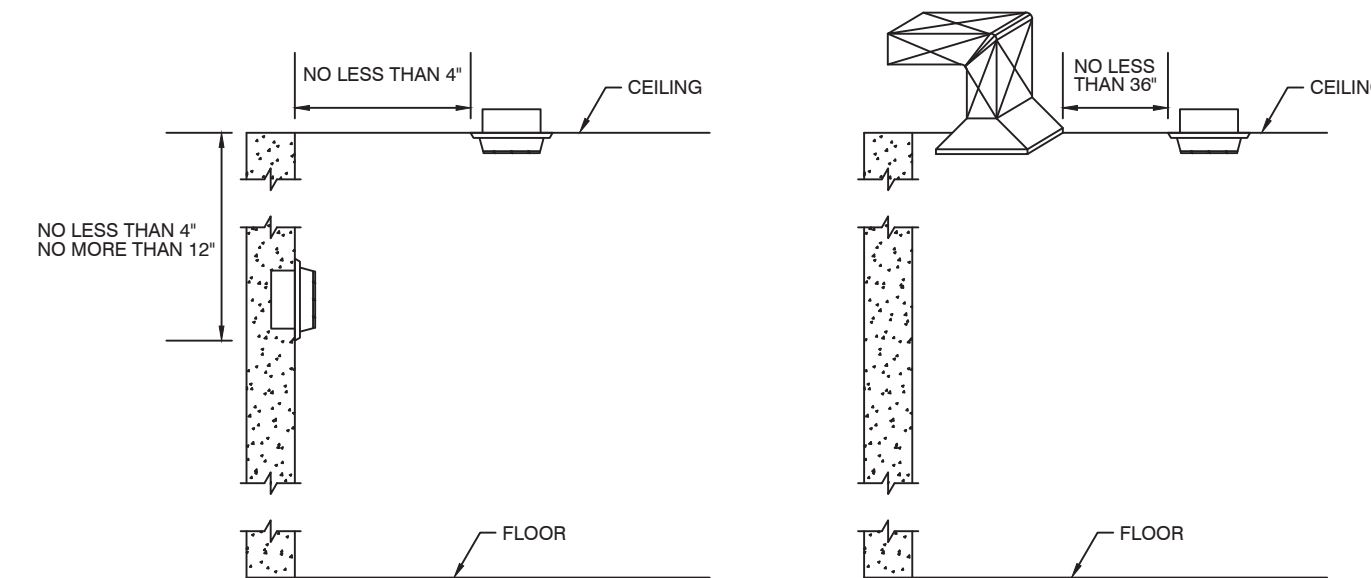
NFPA 72 2013, 18.5.5.1  
WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.

**B** FIRE ALARM - STROBE MOUNTING



NFPA 72 2013, 17.14.5  
THE OPERABLE PART OF A MANUALLY ACTIVATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" FROM THE FINISHED FLOOR.

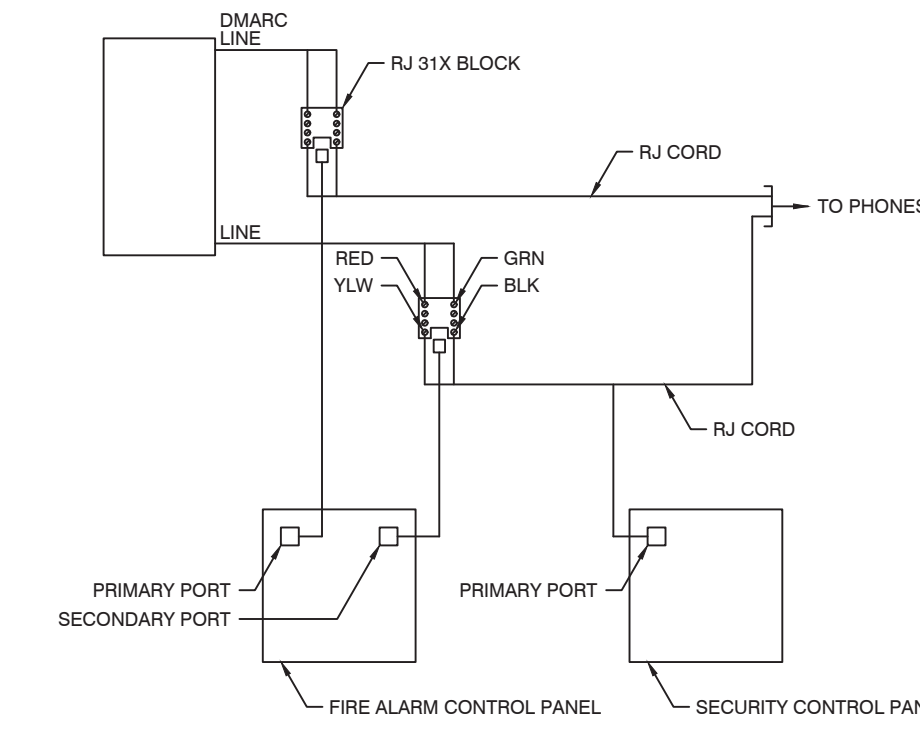
**C** FIRE ALARM - PULL STATION MOUNTING



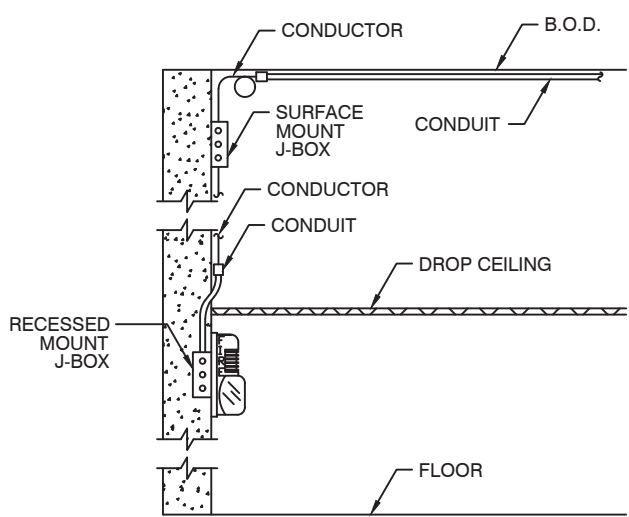
NFPA 72 2013, 17.6.3.1.3.1  
DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4" FROM THE SIDEWALL OR ON THE SIDEWALLS BETWEEN 4" AND 12" FROM THE CEILING.

NFPA 72 2013, A.17.7.4.1  
DETECTORS SHALL NOT BE LOCATED IN DIRECT AIRFLOW OR CLOSER THAN 36" FROM AN AIR SUPPLY, DIFFUSER OR RETURN AIR OPENING.

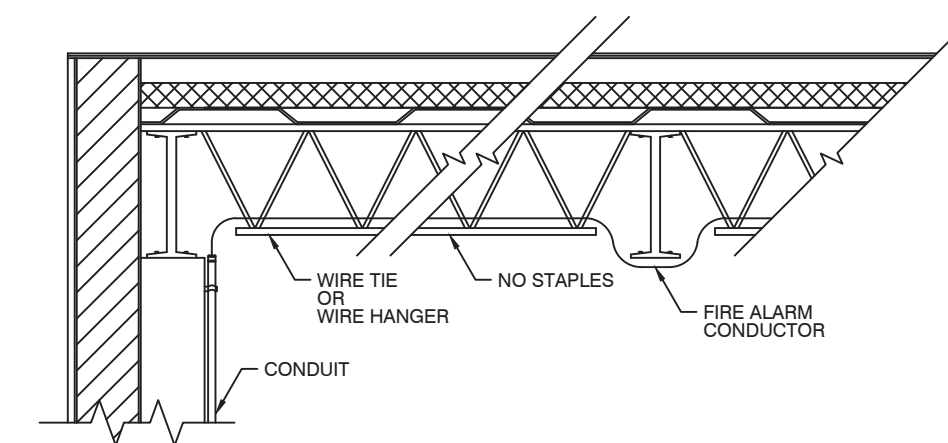
**D** FIRE ALARM - SMOKE & HEAT MOUNTING



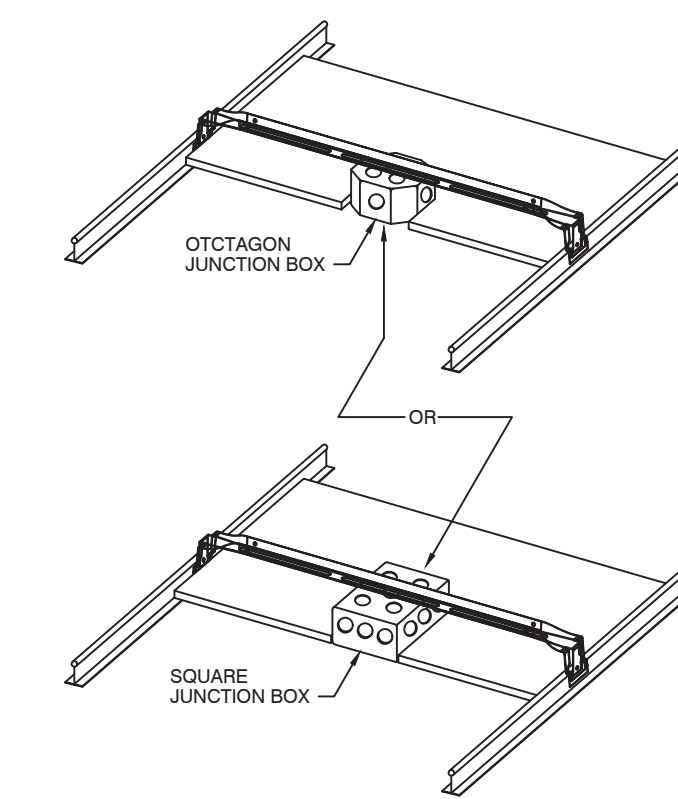
**E** FIRE ALARM - PHONE CONNECTION



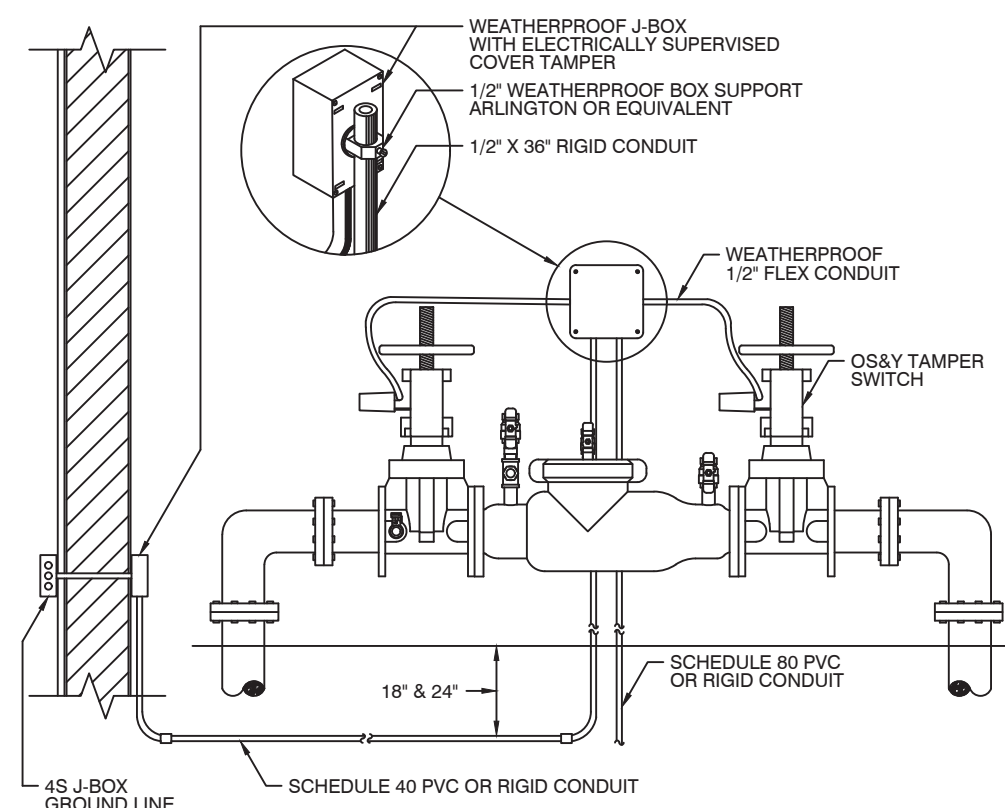
**F** FIRE ALARM - CONDUIT WALL & CEILING



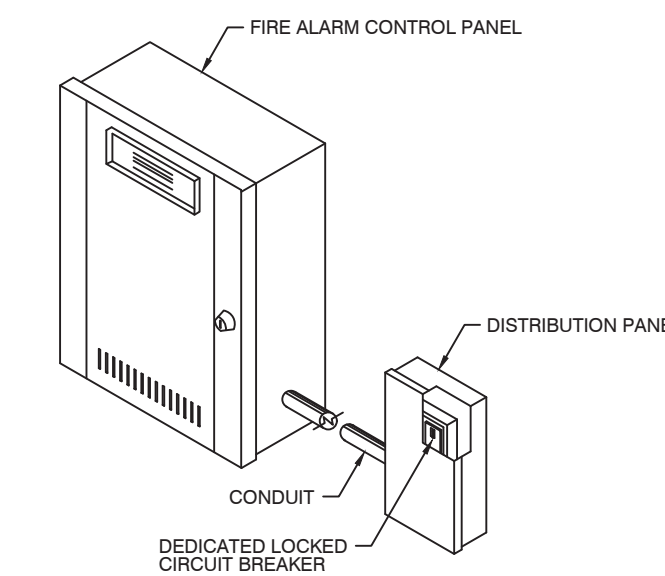
**G** FIRE ALARM - CEILING TO WALL TRANSITION AND OPEN WIRING



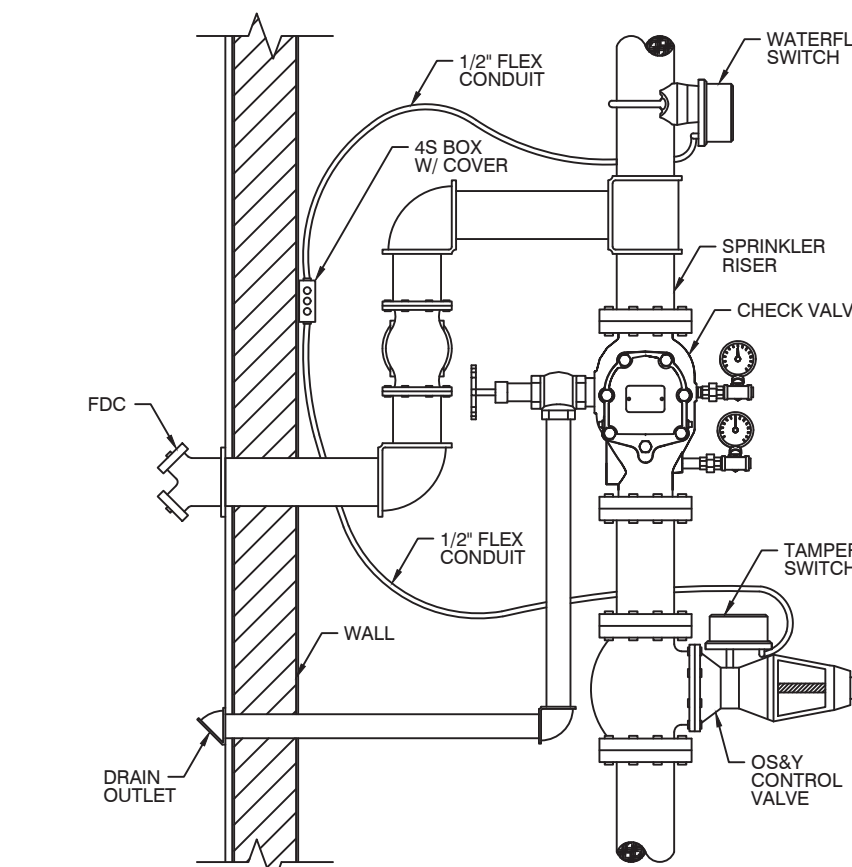
**H** FIRE ALARM - DROP CEILING & J BOX



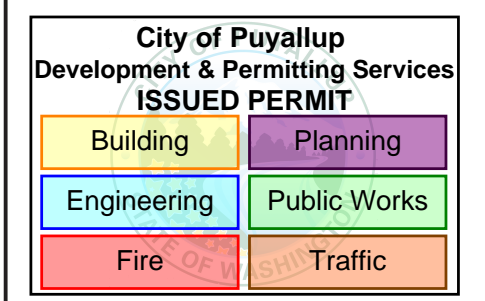
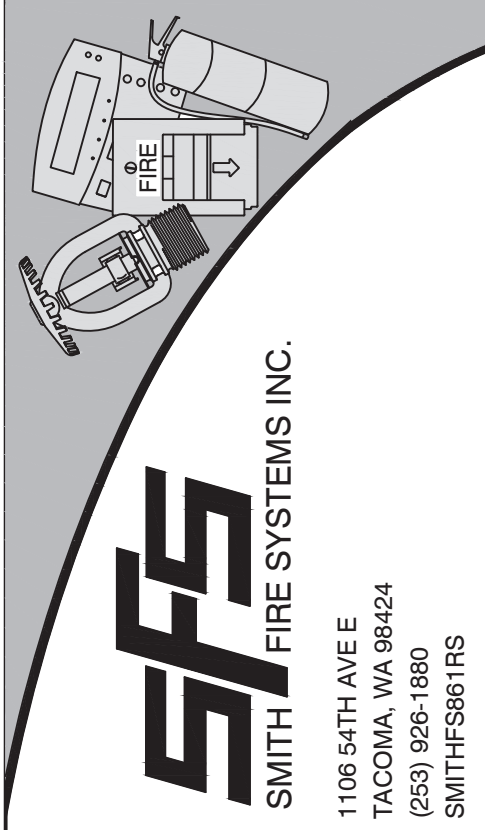
**I** FIRE ALARM - DCVA TAMPER SWITCHES



**J** FIRE ALARM - POWER DISCONNECT



**K** FIRE ALARM - OS&Y TAMPER GATE VALVE



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**FIRE ALARM**

SHEET:  
PRODUCT TYPICALS  
**FA601**