

FIRE ALARM PLAN NOTES

120VAC (BY OTHERS)

DRAWING INDEX

- FA.0.01 COVER SHEET
FA.1.01 FIRE ALARM FLOOR PLAN
FA.6.01 PROJECT CALCULATIONS & LINE DIAGRAM

APPLICABLE CODES

- NFPA 70 – NATIONAL ELECTRIC CODE (2017)
NFPA 72 – NATIONAL FIRE ALARM & SIGNALING CODE (2016)
NFPA 101 – LIFE SAFETY CODE (2018)
INTERNATIONAL FIRE CODE – 2018
INTERNATIONAL BUILDING CODE – 2018

SCOPE OF WORK:

AFP TO INSTALL NEW FIRE ALARM SYSTEM IN A NEW BUILDING WITH A WATER BASED SUPPRESSION SYSTEM. SYSTEM MONITORED BY A REMOTE SUPERVISING STATION PER NFPA 72 26.5 (2016)

ABBREVIATIONS:

WP = WEATHER RESISTANT. ETR = EXISTING TO REMAIN.
ROR = RATE OF RISE. RCP = REFLECTED CEILING PLAN.
ER = EXISTING TO BE RELOCATED. SHOWN IN NEW LOCATION.
NIC = NOT IN CONSTRUCTION. TI = TENANT IMPROVEMENT.

FIRE ALARM SYMBOLS		
ICON	DESCRIPTION	MOUNTING REQUIREMENTS
	VES COMPAS FIRE ALARM CONTROL PANEL	SURFACE MOUNTED ENCLOSURE PROVIDED, TOP 72" AFF; CONDUIT TO CEILING
	VISION FIRE ALARM REMOTE ANNUNCIATOR	4" SQUARE, OR SEMI-FLUSH TRIM RING 60" AFF, CONDUIT TO CEILING
	CELLULAR COMMUNICATOR	SURFACE MOUNTED ENCLOSURE PROVIDED, TOP 72" AFF; CONDUIT TO FACU
	PSN-106 10 AMP POWER SUPPLY PANEL	SURFACE MOUNTED ENCLOSURE PROVIDED, TOP 72" AFF; CONDUIT TO CEILING
	VF2011-00 PHOTO SMOKE DETECTOR	4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING; NO HIGHER THAN 30" AFF
	VF2010-00 135° RATE OF RISE THERMAL DETECTOR	4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING; NO HIGHER THAN 30" AFF
	VF5013-00 PHOTO SMOKE DUCT DETECTOR	INSTALL PER MANUFACTURER SPECIFICATIONS
	VF3002-10 MANUAL PULL STATION	4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING; 48" AFF & 5" FROM DOOR; CONDUIT TO CEILING
	SWM VF6024-00 SINGLE MONITOR MODULE - MINI	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	SWM VF6007-00 DUAL MONITOR MODULE	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	ADM VF6052-00 DUAL RELAY MODULE	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	ELSTR(W), ELSTR(W)C ALARM STROBE, CANDELA SHOWN	WALL MOUNTED, 80"-96" AFF OR (C) = CEILING MOUNTED; 4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING
	ELHSR(W), ELHSR(W)C ALARM H/S, CANDELA SHOWN	WALL MOUNTED, 80"-96" AFF OR (C) = CEILING MOUNTED; 4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING
	END OF LINE RESISTOR PROVIDED BY CONTROL/DEVICE	INSTALL AT THE LAST DEVICE OF THAT CIRCUIT
	WFS SPRINKLER FLOW SWITCH	HANDY BOX INSTALLED ON SWITCH; THEN INSTALL 1/2" FLEX CONDUIT TO 4" SQUARE, 2-1/8" DEEP BOX ON WALL
	VTS SPRINKLER TAMPER SWITCH	HANDY BOX INSTALLED ON SWITCH; THEN INSTALL 1/2" FLEX CONDUIT TO 4" SQUARE, 2-1/8" DEEP BOX ON WALL
	PIV POST INDICATOR VALVE	1/2" WATER-TIGHT FLEX CONDUIT FROM SWITCH TO WEATHER-PROOF SINGLE GANG BOX ON U.G. CONDUIT
	KHS KITCHEN HOOD SUPPRESSION SYSTEM	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	END OF LINE DIODE PROVIDED BY CONTROL/DEVICE	INSTALL AT THE LAST DEVICE OF THAT CIRCUIT
	JUNCTION OF FIRE ALARM CABLES	4" SQUARE, 2-1/8" DEEP BOX, BLANK COVER; CONDUIT TO CEILING

NOTE: NOT ALL SYMBOLS APPLY TO CURRENT PROJECT

SEQUENCE OF OPERATION MATRIX									
	ALARM AT FAC	TRouble AT FAC	SUPERVISORY AT FAC	NOT SUPERVISING AUDIO/VISUAL DEVICES	HWAC / RTU SHUTDOWN	SIGNAL SENT TO OFF-SITE MONITORING	ELEVATOR RECALL	ELEVATOR EQUIPMENT	SHUNT TRIP
FIRE ALARM INPUTS									
1	MANUAL PULL STATION	X		X	X	X			
2	WATER FLOW	X		X	X	X			
3	SMOKE DETECTOR	X		X	X	X			
4	HEAT DETECTOR	X		X	X	X			
5	ELEVATOR LOBBY SMOKE(S)	X		X	X	X	X		
6	ELEVATOR EQUIPMENT ROOM SMOKE	X		X	X	X	X		
7	ELEVATOR EQUIPMENT ROOM HEAT	X		X	X	X	X	X	
8	ELEVATOR SHAFT HEAT	X		X	X	X	X	X	
9	ELEVATOR SHAFT SMOKE	X		X	X	X	X	X	
10	KITCHEN HOOD / ANSUL	X		X	X	X			
SUPERVISORY ALARM INPUTS									
1	DUST DETECTOR			X		X	X		
2	TAMPER SWITCH			X		X	X		
3	CARBON MONOXIDE DETECTOR			X		X			
TROUBLE CONDITIONS									
1	OPEN CIRCUIT		X				X		
2	SHORT CIRCUIT		X				X		
3	GROUND FAULT		X				X		
4	BAD DEVICE, DIRTY DEVICE, NO ANSWER		X				X		
5	LOW BATTERY		X				X		
6	MAIN POWER FAIL		X				X		

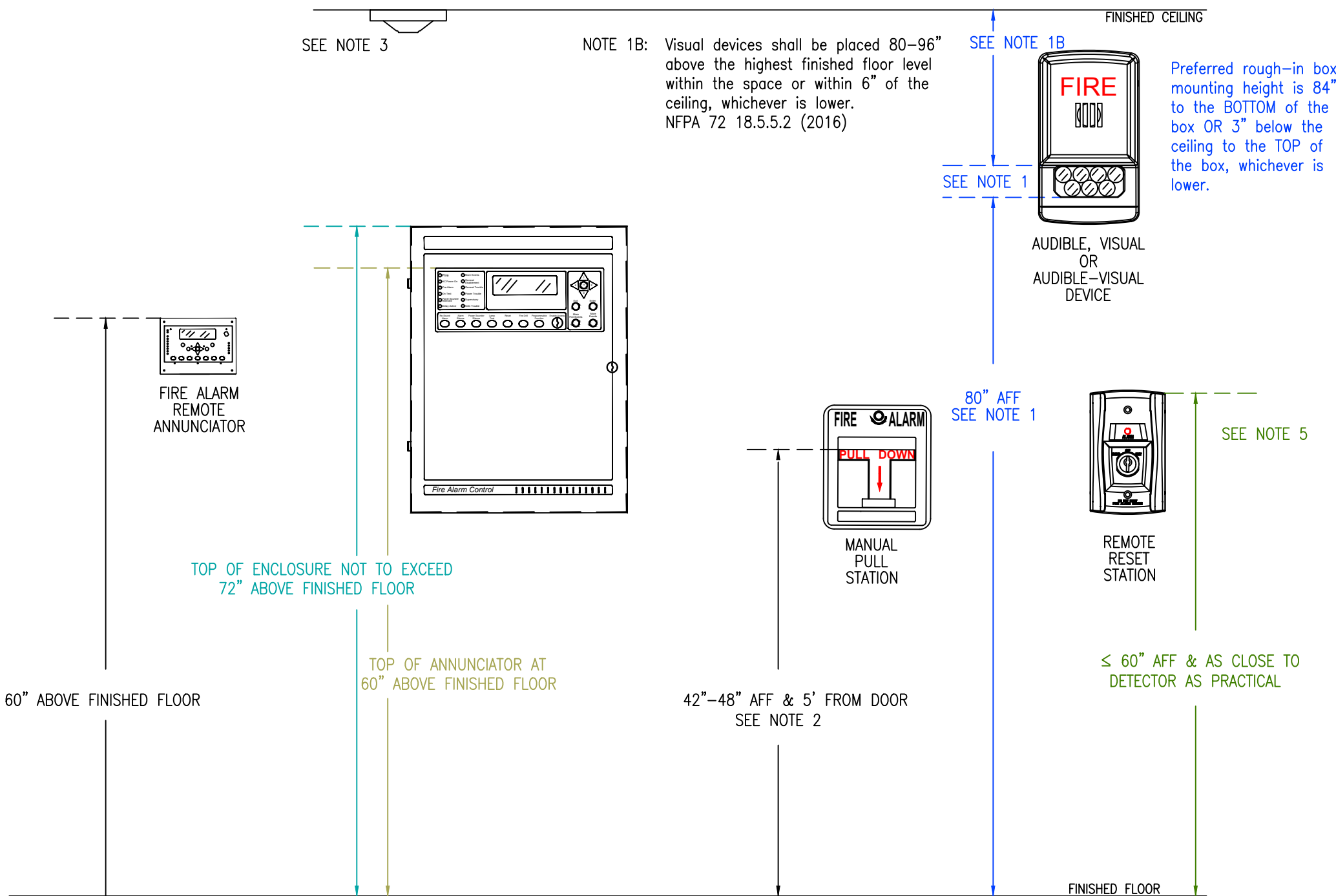
NOTE: NOT ALL CONDITIONS APPLY TO CURRENT PROJECT.

FUNCTIONAL MATRIX

ALLIANCE FIRE PROTECTION
FIRE ALARM SYSTEM

DOUGLAS CORNER - LOT 1B

LEE'S SUMMIT, MO



RECOMMENDED MOUNTING DETAIL
NOT TO SCALE

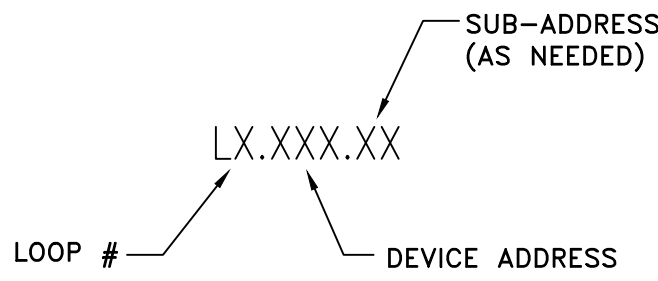
FIRE ALARM GENERAL NOTES

- WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
NFPA 72 18.5.5.1 (2016)
- MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5' OF EXIT DOORWAY.
NFPA 72 17.14.8.4 (2016)
-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.
NFPA 72 17.14.5 (2016)
- IF THE INTENT IS TO INITIATE ACTION WHEN SMOKE/FIRE THREATENS A SPECIFIC OBJECT, THE DETECTOR SHALL BE PERMITTED TO BE INSTALLED IN CLOSE PROXIMITY TO THAT OBJECT.
NFPA 72 17.4.8 (2016)
A: IN HIGH-CEILING AREAS, DETECTION SHOULD BE PLACED ON THE WALL ABOVE AND WITHIN 60" OF THE PROTECTED ITEM.
NFPA 72 A17.4.8 (2016)
- ALL WIRING IN OPEN CEILING TO BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
WIRING SHOULD BE CONCEALED FROM VIEW AS BEST POSSIBLE.
- WHERE DUCT SMOKE DETECTORS ARE NOT RESETTABLE FROM THE PROTECTED PREMISES FIRE ALARM SYSTEM, A LISTED ALARM/SUPERVISORY INDICATOR WITH INTEGRAL RESET SWITCH SHALL BE PROVIDED IN AN ACCESSIBLE LOCATION.
NFPA 72 23.8.5.4.6.4 (2016)

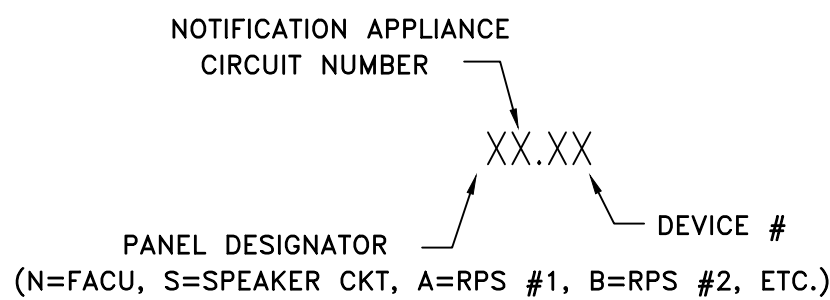
WIRING LEGEND

- 18/2 NON SHIELDED (PLENUM RATED) SLC
- 16/2 NON SHIELDED (PLENUM RATED) NAC/STROBE
- 16/2 NON SHIELDED (PLENUM RATED) 24VDC
- 18/4 NON SHIELDED (PLENUM RATED) ANNUNCIATOR/RTS
- CATS NON SHIELDED (PLENUM RATED) PHONE

SIGNAL LINE CIRCUIT
DEVICE ADDRESS KEY



NOTIFICATION DEVICE ADDRESS KEY



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ATJ
LEE'S SUMMIT FD
Designer NICET Level III
TROY KOEHN
Scale
N/A
Job Number
34964961
Date
05/29/2024
Description
FIRE ALARM
System Type
VES / COMPAS

Revisions

AHJ STAMP

Design Professional of Record
06/05/2024

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DOUGLAS CORNER – LOT 1B
FIRE ALARM
150 NORTHEAST TUDOR ROAD
LEE'S SUMMIT, MO 64086
COVER PAGE

Sheet Number
FA.0.01

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AHJ	
LEE'S SUMMIT FD	
Designer NICET Level III	
TROY KOEHN	
Scale	
3/16" = 1'-0"	
Job Number	
34964961	
Date	
05/29/2024	
Description	
FIRE ALARM	
System Type	
YES / COMPAS	

Revisions

AHJ STAMP

Design Professional of Record
06/05/2024



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DOUGLAS CORNER - LOT 1B
FIRE ALARM
150 NORTHEAST TUDOR ROAD
LEE'S SUMMIT, MO 64086
FLOOR PLAN

Sheet Number

FA.1.01

