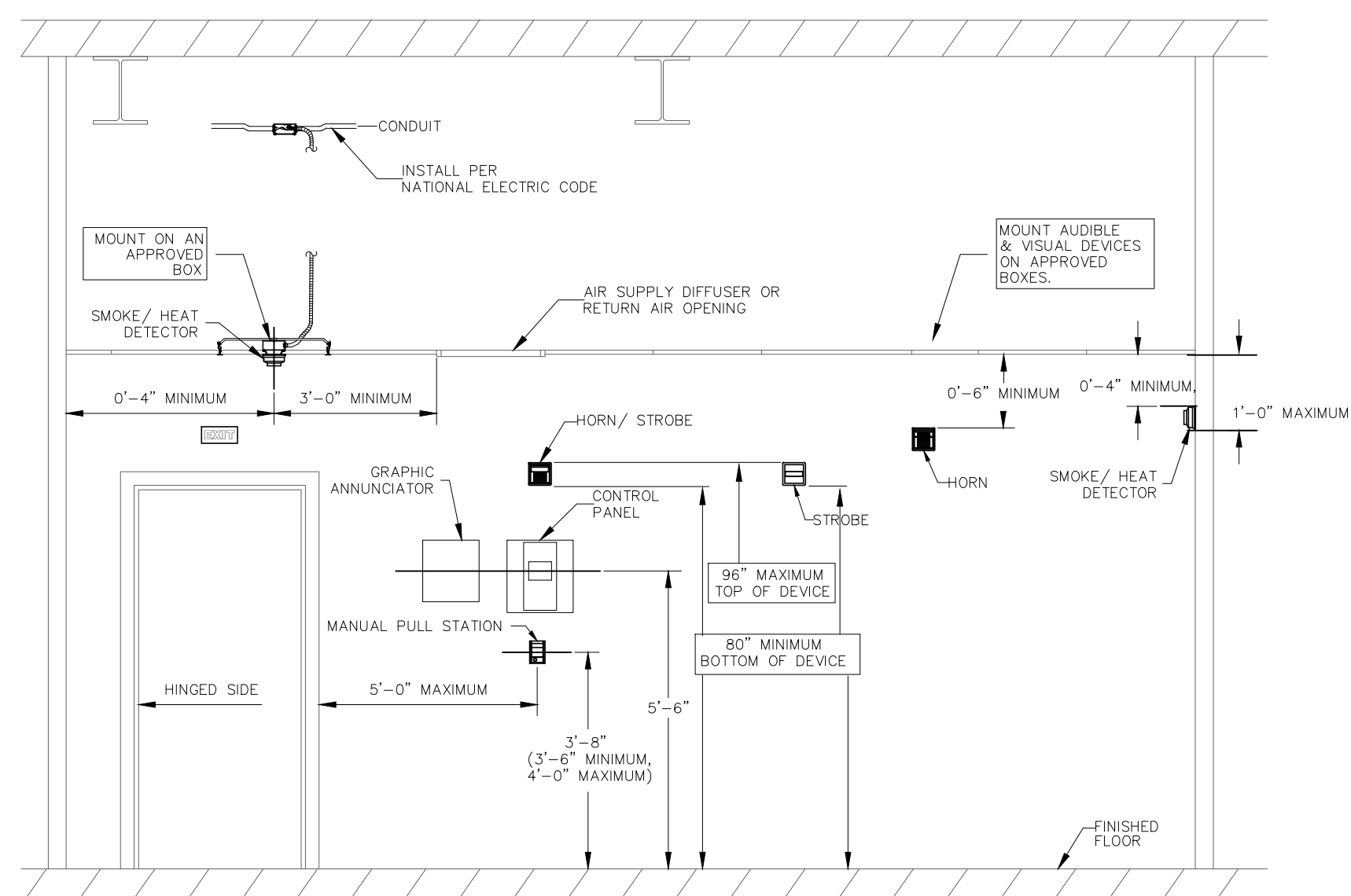


NFPA 72 AND ADA DEVICE
INSTALLATION REQUIREMENTS



FIRE ALARM DEVICE
MOUNTING DETAIL
SCALE: N.T.S.

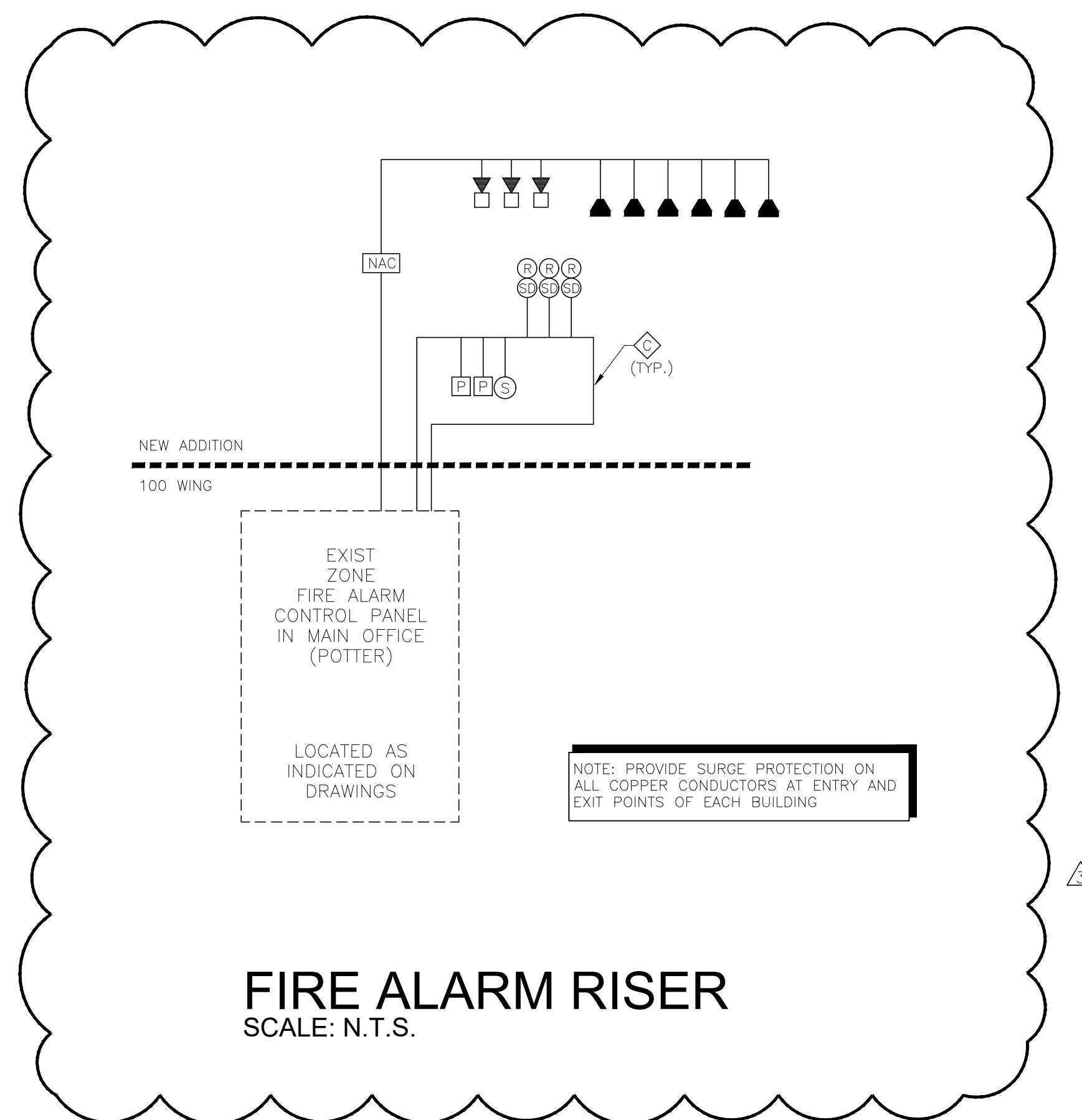
FIRE ALARM SYMBOL LEGEND

(SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)

- FIRE ALARM MANUAL PULL STATION
- FIRE ALARM VOICE NOTIFICATION DEVICE
- FIRE ALARM STROBE NOTIFICATION DEVICE
- CEILING MOUNTED DEVICES
 - SMOKE DETECTOR
 - DUCT MOUNTED SMOKE DETECTOR, PROVIDED AND WIRED BY E.C., INSTALLED BY M.C.
 - HEAT DETECTOR, CEILING MOUNTED
 - DOOR MAGNET
 - CARBON MON-OXIDE DETECTOR
- FIRE ALARM CONTROL PANEL, FLUSH MOUNTED
- REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED
- KNOX BOX (COORDINATE WITH LOCAL FIRE MARSHALL)
- BOOSTER POWER SUPPLY
- WATER FLOW SENSOR
- TAMPER SWITCH
- KITCHEN HOOD RELAY
- MONITOR MODULE
- FAN SHUT DOWN RELAY
- DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.

FIRE ALARM INSTALLATION NOTES:

- FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY.
- E.C. OR E.C.'S REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.
- FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STATE AND LOCAL LAWS AND IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.
- ALARM SHALL HAVE A SOUND LEVEL MEETING THE dB REQUIREMENTS OF 907.6.2.1.1 OF THE NC FIRE PREVENTION CODE AND NOT LESS THAN 20 dB ABOVE AMBIENT NOISE LEVELS. (TYPICALLY, 55 dB AMBIENT NOISE PER BUSINESS OCCUPANCY. ADJUST FOR NOISY ENVIRONMENTS).
- ANY WIRING INSTALLED IN RETURN AIR PLENUM SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A FULL SET OF SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS, WIRING DIAGRAMS, AND DEVICE PRODUCT DATA TO THE AHJ FOR REVIEW AND APPROVAL PRIOR TO STARTING ROUGH-INS.
- E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.
- NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING POTTER FIRE ALARM SYSTEM LOCATED IN THE MECHANICAL ROOM OF THE JUNIOR HIGH BUILDING. CONNECT TO SLC LOOP IN THE MECHANICAL ROOM LOCATED IN THE MEDIA CENTER AS INDICATED.



FIRE ALARM SYSTEM ACTION MATRIX	THROUGHOUT ENTIRE BUILDING																COMMENTS/REMARKS						
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE SIGNAL	ACTIVATE APPROPRIATE LOCATION INDICATOR	ACTIVATE ALL AUDIBLE EVACUATION SIGNALS	ACTIVATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (UNIVERSAL)	FAN SHUT DOWN (SPECIFIC UNIT)	OPEN ELEV VENT AND RETURN CAR TO PRIMARY FLR		OPEN ELEV VENT AND RETURN CAR TO ALTERNATE FLR	TRIP SHUNTED BREAKERS (ELEV OR HT)	FIREMAN'S HAT & ALARM IN ELEV CAR	MISC & SPECIALTY LTO SHUT DOWN	FIRE SMOKE DAMPER SHUT DOWN	RELEASE MAGNETIC DOOR HOLDERS ON RATED DOORS
MANUAL ALARM STATION	X	X					X	X	X	X	X			X						X	X	X	
SMOKE SENSOR / DETECTOR	X	X					X	X	X	X	X			X		X				X	X	X	
ELEV SMOKE SENSOR PRIMARY FLOOR	X	X					X	X	X	X	X			X		X			X	X	X	X	
ELEV SMOKE-HEAT EQUIP IN OR SHFT	X	X					X	X	X	X	X			X		X		X	X	X	X	X	
ELEVATOR SMOKE SENSORS (ALT FLOORS)	X	X					X	X	X	X	X			X		X		X	X	X	X	X	
DUCT SENSOR / DETECTOR			X	X			X					X			X								
KITCHEN HOOD SUPPRESSION SYS	X	X					X	X	X	X	X			X		X		X	X	X	X		
WATERFLOW SWITCH	X	X					X	X	X	X	X			X		X		X	X	X	X		
TAMPER SWITCH			X	X			X			X		X						X	X	X	X		
POST INDICATOR VALVE SWITCH			X	X			X			X		X											
FIRE ALARM AC POWER FAILURE					X	X				X													
FIRE ALARM SYSTEM LOW BATTERY					X	X				X													
OPEN CIRCUIT					X	X				X													
GROUND FAULT					X	X				X													
NOTIFICATION APPLIANCE CIRCUIT										X													
WIRE-TO-WIRE SHORT					X	X				X													

- WIRE LEGEND
- 1 PAIR #16 SHIELDED CABLE
 - 2 COND. #14 THHN
 - 4 COND. #14 THHN
 - 8 COND. #22
 - 2 PAIR #18 SHIELDED + 2 COND. # 14 THHN

ES23022 ENGINEERING SOURCE OF NC, P.A. 10/18/23

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No.	Date	Revision
3	10/18/23	ADDENDUM # 3
2	10/17/23	ADDENDUM # 2
1	10/04/23	ADDENDUM # 1

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2802 Meridian Drive / Greenville, NC 27834 / Tel (252) 757-0333

REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
EXPIRES 4/18
HITE ASSOCIATES, P.C.

New Classroom Addition for
North Duplin Jr.-Sr. High School
1388 NC-403, Mt Olive, NC 28365
Duplin County / North Carolina

Project No: 22253
Date: 6 March 2023
Drawing No: FA 001

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