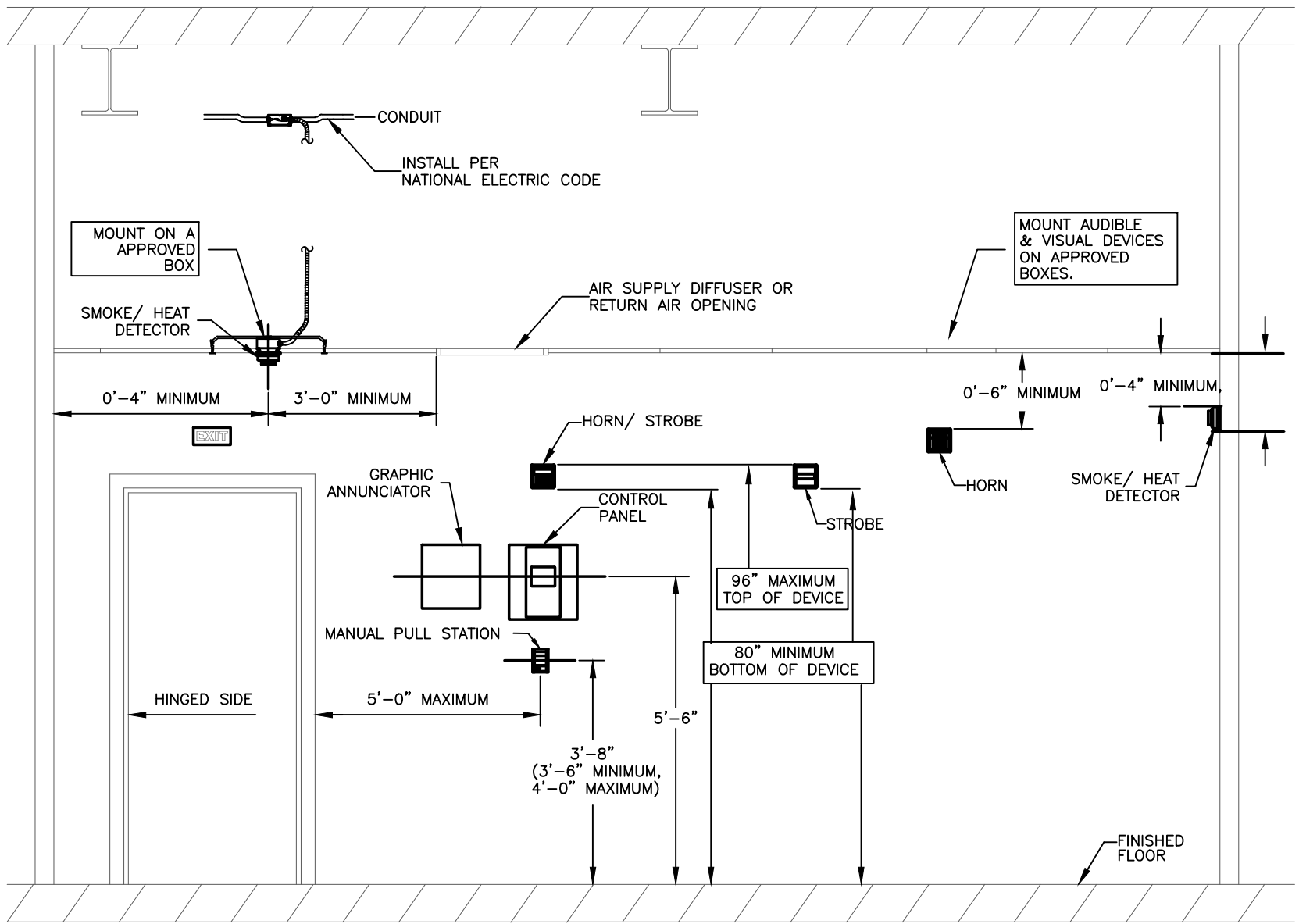


FIRE ALARM INSTALLATION NOTES:

1. FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY.
2. E.C. OR E.C.'S REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.
3. 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.
4. 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 EDUCATION OCCUPANCY. ADJUST FOR NOISY ENVIRONMENTS).
5. ANY WIRING INSTALLED IN RETURN AIR PLENUM SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT. WIRING INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
6. 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.
7. E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.
8. FIRE ALARM SYSTEM SHALL INTERRUPT & SILENCE SCHOOL GYM PA SYSTEMS UPON ALARM ACTIVATION.
9. PROVIDE TAMPER DEVICE AT SPRINKLER SYSTEM HOTBOX, IF APPLICABLE. COORD HOTBOX LOCATION WITH CIVIL SITE PLAN.
10. E.C. SHALL BE RESPONSIBLE FOR REWORKING OR REMOVING THE EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES, WIRING, AND CONDUIT (AS REQUIRED) IF PLANS INDICATE A NEW FIRE ALARM SYSTEM AND DEVICES TO BE INSTALLED IN AN EXISTING AREA. COORDINATE ANY SHUT-DOWNS WITH OWNER. SEE RISER.
11. IN NEW GYM BUILDING, ALL PULL STATIONS SHALL HAVE PROTECTIVE POLYCARBONATE COVER PROVIDED AND INSTALLED. COVER SHALL BE STI STOPPER II OR EQUIVALENT APPROVED BY DESIGNER.
12. EXISTING BUILDING SHALL ALARM SEPARATELY FROM NEW GYM BUILDING. SEE MATRIX.
13. FIRE ALARM SYSTEM SHALL BE NOTIFIER TO MATCH WITH EXISTING CAMPUS SYSTEM. SEE RISER.
14. FA CONTRACTOR SHALL INCLUDE TESTING FOR THE FIRST RESPONDER EMERGENCY BDA SYSTEM IN HIS BID. CONTRACTOR SHALL PROVIDE AND INSTALL THE BDA SYSTEM IF IT IS REQUIRED. SEE ALLOWANCE IN THE SPECIFICATIONS.

NFPA 72 AND ADA DEVICE
INSTALLATION REQUIREMENTS



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

FIRE ALARM RISER DIAGRAM (BASE BID)
SCALE: 3/32" = 1'-0"

FIRE ALARM ALT BID: COST TO PROVIDE AND INSTALL ALL LABOR, MATERIAL, EQUIPMENT AND PROGRAMMING TO ADD DEVICES SHOWN ON FA-101A TO THE BASE BID SYSTEM

- 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

- WALL LEGEND
- 8" NON-RATED WALL
 - SMOKE TIGHT CONSTRUCTION WALLS AND CEILING
 - ONE HOUR RATED FIRE BARRIER
 - TWO HOUR RATED FIRE BARRIER

- FIRE ALARM SYMBOL LEGEND
(SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)
- P: FIRE ALARM MANUAL PULL STATION
 - H: FIRE ALARM HORN/STROBE
 - N: VOICE NOTIFICATION FIRE ALARM/STROBE
 - S: VOICE NOTIFICATION SPEAKER
 - SD: FIRE ALARM STROBE
 - SD: SMOKE DETECTOR
 - SD: HEAT DETECTOR, CEILING MOUNTED
 - FACP: FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.
 - RA: REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED
 - SD: DUCT MOUNTED SMOKE DETECTOR, PROVIDED AND WIRED BY E.C., INSTALLED BY M.C.
 - SD: SHUT DOWN RELAY PROVIDED AND AND WIRED BY E.C.
 - SD: DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.
 - SD: SPRINKLER RISER WATER FLOW SENSOR, PROVIDED & WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR.
 - SD: SPRINKLER RISER TAMPER SWITCH, PROVIDED AND WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR.
 - SD: SPRINKLER RISER WATER VALVE SHUT-OFF SENSOR, PROVIDED & WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR.
 - MM: MONITOR MODULE
 - BS: AREA OF RESCUE ASSISTANCE BASE STATION WITH VISUAL LOCATION INDICATOR. RATH 2500-205FMC (OR EQUAL)
 - BS: AREA OF RESCUE ASSISTANCE 2-WAY COMMUNICATION REMOTE STATION. RATH 2100 FLUSH MTD (OR EQUAL)
 - SD: MAGNETIC DOOR HOLD OPEN DEVICE (POE)
 - SD: CARBON MON-OXIDE SENSOR

FIRE ALARM SYSTEM ACTION MATRIX	SYSTEM ACTION																						COMMENTS/REMARKS
	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE AUDIBLE LOCAL ALARM SIGNAL	ACTUATE VOICE NOTIFICATION	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE 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 (SPECIFIC UNITS (WU))	FAN SHUT DOWN (UNIVERSAL)	SHUNT POWER TO ELEVATOR	DAMPER SHUT DOWN	RELEASE MAGNETIC DOORS	FIRE SHUTTERS	SHUNT ALL GAS & POWER UNDER HOOD	
INITIATING DEVICE OR CONDITION (NEW GYM BLDG)	MANUAL ALARM STATION	X	X	X					X	X	X	X	X				X		X	X	X		ALARM IN NEW BLDG ONLY AND DISPATCH TO CIVIL BLDG
	SMOKE SENSOR / DETECTOR	X	X	X					X	X	X	X	X				X		X	X	X		
	DUST SENSOR / DETECTOR				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									
	EMERGENCY LOCKDOWN BUTTON														X								
	CARBON MON-OXIDE SENSOR			X		X	X		X			X		X						X			
	FIRE ALARM AC POWER FAILURE							X	X			X				X							
	FIRE ALARM SYSTEM LOW BATTERY							X	X			X				X							
	OPEN CIRCUIT							X	X			X				X							
INITIATING DEVICE OR CONDITION (EXIST BLDG)	GROUND FAULT							X	X			X				X							
	NOTIFICATION APPLIANCE CIRCUIT							X	X			X											
	MISC-TO-MISC SHORT							X	X			X											
INITIATING DEVICE OR CONDITION (EXIST BLDG)	MANUAL ALARM STATION	X	X	X					X	X	X	X	X				X		X	X	X		ALARM IN EXIST BLDG ONLY AND DISPATCH TO EXIST BLDG
	SMOKE SENSOR / DETECTOR	X	X		X				X	X	X	X	X				X		X	X	X		
	DUST SENSOR / DETECTOR					X	X		X	X	X	X	X			X							
SP-10 PUMP (H- MONITORING STATION (ALL POINTS))					X	X			X			X		X									