Notice: The fire alarm installation shall be made in accordance with the drawings, specifications, and applicable standards. Should a conflict occur between the drawings and specifications, the specifications shall prevail.

Notice: Attempts to submit plan sets without the minimum information listed below will result in rejection of the plan submittal.

Notice: The Life Safety field inspector has final say on additional initiating devices and notification devices.

Minimum Plan Review Document Requirements:

- Plan review fees must be paid in full before plans will be accepted for plan review.
- Plans received by mail, courier, UPS or otherwise unaccompanied by an applicant knowledgeable with the project will be checked for completeness per this checklist. If the plans are determined to be unacceptable for plan review, the applicant (listed contact person) will be notified that the plans must be picked up within two weeks, or they will be discarded.
- A minimum of TWO (2) sets of plans and specifications is required. No more than FIVE (5) sets may be submitted and up to four will be returned. Once construction on the system begins approved set of plans shall be kept on the job site at all times and shall be available for the inspector at final checkout.
  - Those wishing to have stamped set of plans and specifications returned must provide sufficient return postage affixed to self-addressed return package (if using package delivery service such as UPS or FedEx you must provide a package pickup label). Those arriving without will not be returned.
  - Cover sheet with proper address for the property system being installed.
  - Plans stamped “Preliminary” and/or “Not for Construction” will not be accepted for review.
  - Plan sheet size options are 24” x 36” or 11” x 17” and all sheets must be of the same size. Submitted plans must be in minimum 1/8” scale in U.S. units to ensure legibility with sufficient detail to clearly document the nature and scope of proposed construction.
  - All rooms must be correctly labeled for their use.

Cover Sheet of Drawings

- Contractor name, address and phone number shall be shown on the plan cover sheet
Include names of any other contractors performing work on the system (electrical, fire alarm, mechanical)

The plans/specifications submitted shall designate the authority having jurisdiction as the City of Omaha

Plans shall specify the adopted IFC and NFPA code editions the plans were designed for.

Type of system: conventional, hardwired, wireless, addressable, analog addressable, etc.

Sequence of operations (input/output matrix)

Identify if wiring is enclosed in conduit, open wiring, power limited or non-power limited

Type of notification

Scope of work

Wiring legend

Device mounting detail of fire alarm devices

Symbol list with manufacturer, part number and back box. Symbols must comply with NFPA 170. If insufficient space for wiring legend and symbol list on title sheet then insert an additional sheet.

The cover sheet must include the following notes:

- The installer is required to coordinate with the mechanical contractor to determine installation of smoke detectors or sensors (i.e. not closer than 3 feet from any supply/return diffuser and that additional detection may be required due to the relocation or spacing adjustments of detectors as a result).
- Fire alarm devices must be placed in protected areas with ambient temperatures ranging from 32 degrees to 120 degrees unless specifically listed for the expected conditions.
- Do not place smoke detectors within 3 feet of air supply registers and diffusers.
- Fire alarm control panel will be placed in the location specified within the plan submittal unless approved by the Life Safety Field Inspector.
- The contractor shall conduct a “pre-test” of the project area prior to scheduling an acceptance test with the Fire Prevention Division Life Safety Inspector.
- Remote alarm indicators shall be provided for any automatic fire alarm detector located in a concealed location.
- At the time of final fire alarm inspection the system must be compliant with NFPA 72 for monitoring.
- The Omaha Fire Department does not grant approval for any violations of adopted fire code. Code violations uncovered during field inspections must be corrected.
- The installing contractor (or designee) must provide all necessary testing equipment and perform all testing required by the Life Safety field inspector.
- In-duct smoke detectors installed in concealed locations or, where the detectors alarm indicator is not readily visible to responding personnel shall be provided with a remote indicator(s), remote test
station and permanent placarding.

- Fire alarm systems shall include both audible and visual alarms. Visual alarms will be required in all accessible public and common-use areas.
- Provide a primary and secondary power supply for the fire alarm system per the 2012 IFC and 2002 NFA 72.
- The fire alarm installation contractor shall complete the NFPA 72 “record of completion” prior to scheduling the AHJ acceptance test.
- Audible alarm signaling devices shall exceed the prevailing sound level in a room or space by 15dba. Sound levels for alarm signals shall be 110 dba maximum (IFC section 907.5.2.1.2).

- Occupancy Group:
- Number of stories (indicate if there is a basement)
- This building fire sprinkled:
- This is a new or existing system:
- Construction Type:
- Square footage project area and total square footage of structure:
- Fire Alarm contractor.
  - Company Name
  - Business address
  - Phone and fax numbers
  - Email address
- Authority having Jurisdiction
  - Omaha Fire Department Fire Prevention Division 1516 Jackson St.

- Omaha NE 68102
  - Phone: 402-444-5799
- NICET or engineers information
  - Company Name
  - Business address
  - Name and certification number and level of individual
  - Phone number
- Electrical contractor
  - Company name
  - Business address
  - Phone number
- Fire alarm shall be compliant with NFPA 72 for monitoring.
  - Company Name
  - Business address
  - Phone Number
- Cost of materials being installed.

**Site Plan Sheet (required only for multi-building complexes)**

- Site Plan
- Scale of site plan with bar graph
- Location, number and/or address of each building
- Location of main control panel and all sub-control panel locations
- Show location of fire alarm annunciator panel.
- Location of wiring between buildings.
- Location of exterior horn and strobe device (show fire department connection if structure is sprinkled).
- Point of the compass for building orientation.

**Floor Plan Sheets**

- Building floor plan with proper floor name on each sheet (verify proper floor names with architect).
- Sheet title.
- Scale of sheet.
- Scale bar graph.
Location of all doors, windows and walls (exterior and interior).
Location of all obstructions exceeding 6 ft. above floor.
Intended use of each room (i.e., storage, classroom, restroom, vestibule, etc.)
Location of main fire alarm control panel.
Location and source of emergency standby power.
Location of all annunciator panels, sub fire alarm panels, booster panels, etc.
Location of all fire alarm detection and notification devices along with temperature ratings and candela ratings if applicable.
Location of all ancillary devices (i.e., door holders, door closers, gas shut off, fan shut down, smoke dampers, shunt trips).
Location of al fire sprinkler risers, water-flow switches and tamper switches.
Location of all fire pumps and fire pump controllers.
Show all access doors and signage for duct detector access.
Show all remote indicators for hidden devices.
Show zoning if a conventional system
Show wiring type, size, number of conductors and approximate wiring layout.
Show all rated walls
When tenant finish show adjacent devices and rooms.
Point of the compass for building orientation.

Riser Diagram Sheet
- Full riser diagram showing all devices by floor/area as connected in the circuit, device addresses, and room numbers and/or names, color coding schedule, wire count, wire type and conduit fill calculations.

Details Sheet
- Circuit wiring diagram.
- Typical device and ancillary device wiring.
- The interface of fire safety control functions.

Voltage Drop Calculations Sheet
- Voltage drop calculations for each Notification Appliance Circuit (NAC) showing wire size, circuit current and voltage drop.

Stand-by Battery Calculation Sheet
- Stand-by battery calculations for each control panel, sub panel, power booster, central station transmitter and power supply.

Specification Package
- Table of contents.
- Fire Alarm control panels, power supplies and annunciators.
- Detection devices.
- System components, modules and relays
- Battery calculations and cut sheets (calculations shall also be on plans).
- Voltage Calculations (shall also be on plans).
- Compatibility listings (matrix table or information showing device compatibility)
- Operating instructions for entire system (this will include a copy of what will be posted adjacent to/inside FACP).

Additional Sheets as Required
- NFPA general notes
- NFPA typical notes
- All areas of the building
- All floors and all configurations