

VILLAGE OF MINOOKA

ORDINANCE NO. 2018-04

AN ORDINANCE ADOPTING THE 2015 INTERNATIONAL FIRE CODE AND AMENDING
TITLE 4, CHAPTER 2, SECTION 11 OF THE VILLAGE CODE FOR THE VILLAGE OF
MINOOKA, WILL COUNTY, GRUNDY COUNTY, AND KENDALL COUNTY, STATE OF
ILLINOIS

ADOPTED BY THE
BOARD OF TRUSTEES OF THE
VILLAGE OF MINOOKA

THIS 23rd DAY OF January, 2018

Published in pamphlet form by authority of the Board of Trustees of the Village of Minooka, Will
County, Grundy County and Kendall County, Illinois, this 24th day of January,
2018.

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AN ORDINANCE ADOPTING THE 2015 INTERNATIONAL FIRE CODE AND AMENDING TITLE 4, CHAPTER 2, SECTION 11 OF THE VILLAGE CODE FOR THE VILLAGE OF MINOOKA, WILL COUNTY, GRUNDY COUNTY, AND KENDALL COUNTY, STATE OF ILLINOIS

WHEREAS, the Village President and Board of Trustees of the Village of Minooka, Will County, Grundy County and Kendall County, Illinois, have the authority to adopt ordinances and to promulgate rules and regulations proper or necessary, to carry into effect the powers granted to municipalities; and

WHEREAS, pursuant to 65 ILCS 5/11-30-4 of the Illinois Municipal Code, the corporate authorities of each municipality may prescribe the strength and manner of constructing all buildings, structures and their accessories; and

WHEREAS, 65 ILCS 5/1-3-2 and 50 ILCS 220/2 both provide that where rules, regulations, and codes for the construction of buildings have been printed in book form, such rules, regulations, and codes, or portions thereof, may be adopted by reference; and

WHEREAS, pursuant to 65 ILCS 5/1-3-1 and 5/1-3-2 of the Illinois Municipal Code, the Village may adopt by reference, as criteria for the issuance of construction, reconstruction, alteration, or installation permits, all or part of the provisions of regulations which have been prepared by nationally recognized technical trade or service associations, including building codes, plumbing codes, electrical wiring codes, and fire prevention codes, without setting forth those provisions in full, if at least one copy of those regulations is filed in the office of the clerk of the Village and is kept available for public use, inspection, and examination; and

WHEREAS, a copy of said the 2015 International Fire Code has been on file with the Village clerk and available for public use, examination, and inspection for at least thirty (30) days preceding passage of this Ordinance; and

WHEREAS, the Village of Grant Minooka is required by 20 ILCS 3105/10.18 to notify the State of Illinois, Illinois Capital Development Board thirty (30) days before adopting a new building code or amending an existing building code; and

WHEREAS, the adoption of the 2015 International Fire Code provided for in this Ordinance was submitted to the Capital Development Board more than thirty (30) days prior to the Board's passage of this ordinance; and

WHEREAS, Title 4, Chapter 2, Section 11 of the Village Code currently provides for the adoption of the 2003 International Fire Code, and amendment is required for the adoption of the 2015 International Fire Code, with amendments thereto.

NOW, THEREFORE, BE IT ORDAINED BY THE VILLAGE PRESIDENT AND BY THE BOARD OF TRUSTEES OF THE VILLAGE OF MINOOKA, WILL COUNTY, GRUNDY COUNTY, AND KENDALL COUNTY, STATE OF ILLINOIS PURSUANT TO ITS STATUTORY AUTHORITY AS FOLLOWS:

SECTION 1. The President and Board of Trustees hereby find that all of the recitals contained in the preamble to this Ordinance are true, correct and complete and are hereby adopted as part of this Ordinance.

SECTION 2. Title 4, Chapter 2, Section 11 of the Village Code is hereby amended by deleting the text following the heading and replacing the deleted text with the following:

A. The 2015 edition of the International Fire Code, including appendix B, C, D, F, H, I, K, L, and M as published by the International Code Council is hereby adopted as the Village of Minooka ("Village") Fire Code ("Code"), which shall regulate and govern the safeguarding of life and property from the hazards of fire and explosion arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the use or occupancy of existing or proposed new buildings or premises. The Code shall also regulate and govern the issuance of permits and collection of fees therefore.

B. Each and all of the regulations, provisions, penalties, conditions and terms of said Code on file in the Village of Minooka are hereby referred to, adopted, and made a part hereof, as if fully set out in this legislation, with the additions, insertions, deletions, and changes as are hereafter set forth.

C. Nothing in this code shall affect single and multifamily dwellings, attached or detached, that do not exceed three stories in height.

D. The following additions, insertions, deletions, and changes shall be effective and applicable to the 2015 International Fire Code as adopted herein:

101.1 Title.

Insert: Village of Minooka.

103.1 General

Delete this section

103.2 Appointment.

Delete text and replace with the following:

The Village of Minooka appoints the Minooka Fire Protection District Fire Chief as its fire code official. The Village building and zoning officer shall be the Village's liaison with the fire code official and shall retain those responsibilities under this Code not herein delegated to the fire code official; however, the building and zoning officer may request the advice and recommendation of the fire code official in the performance of his or her duties and contract, with approval of the Village Board, with third party consultants for plan review and recommendation in the execution of any other duties requiring specific expertise in fire protection.

The building and zoning officer may recommend policies and procedures to the Village board that he or she deems appropriate to carry out the enforcement of this Code, and may request the advice of the fire code official in recommending any such policies or procedures.

103.3 Deputies

Delete text and replace with the following:

The fire code official may, at his or her discretion, assign duties of the fire code official under this Code to his or her subordinates, as appropriate.

104.1 General

Delete text and replace with the following:

Except where the Village has contracted with and relied upon a third party for services related to the interpretation and enforcement of this Code, the fire code official's interpretation of this Code and to recommend policies, procedures, rules and regulations shall be taken under consideration by the Village in order to clarify application of its provisions.

104.2 Application and permits.

Replace "fire code official" with "building and zoning officer."

104.5 Notice and orders

Delete text and replace with the following:

Should the fire code official find a violation of this code during an inspection required under this code, he or she shall issue a notice of violation to the premises owner, with a warning to correct the violation within thirty (30) days of the date of the notice of violation. After thirty (30) days have elapsed from the date the notice of violation and warning were issued, the fire code official shall reinspect the premises. If the violation has been found corrected upon reinspection, no further action will be taken. If the violation has not been corrected by the reinspection date, the fire code official shall notify the building and zoning officer within two business days after the reinspection.

Upon notice from the fire code official of the uncorrected violation, the building and zoning officer shall verify the violation has not been corrected. If the violation has not been corrected, the building and zoning officer is authorized to issue a violation notice and report form in the name of the Village. Violations shall be adjudicated pursuant to Title I, Chapter 18 of the Village Code for Building Code Adjudication. The building and zoning officer may reinspect the premises prior to hearing under Title 1, Chapter 18, upon request from the owner or occupant of the premises.

106.6.4 Administrative.

Delete this section.

104.7 – 104.9.2

Replace "fire code official" with "building and zoning officer."

Section 105: Permits

Replace "fire code official" with "building and zoning officer."

105.4.2.1 Fire Protection Shop Drawings

Add the following:

For each hydraulically calculated automatic fire sprinkler system area identified, on submitted shop drawings, provide a copy of the hydraulic name plate.

105.4.2.3 Plan Review and Site Inspection Fee Schedule

Add as additional sections for local jurisdiction

Each applicant shall submit three (3) printed sets and an electronic copy of sprinkler, fire alarm, and construction documents essential for third party review. All fees to be directly paid to the third party review firm.

106.1 Inspection authority.

Add after “fire code official” “and building and zoning officer.” Replace “is” with “are.”

106.2: Inspections.

Add after “fire code official” “and building and zoning officer.” Replace “is” with “are.”

108.1 Board of appeals established.

Delete this section.

109.3 Notice of violation.

Add “or building code officer” after “fire code official.”

109.3.1 Service.

Delete this paragraph and insert the following:

Notices of violation shall be served as provide in Title I, Chapter 18 of the Village Code for the Village’s Building Code Adjudication.

109.3.3 Prosecution of violations.

Replace “fire code official with “building and zoning officer.”

109.4.1 Abatement of Violation.

Replace “fire code official” with “Village.”

Section 111: Stop Work Order

Replace “fire code official” with “building and zoning officer.”

111.4 Failure to Comply

Replace that part beginning with “Shall be liable. . .” with the following:
shall be punished as provided in Section 4-2-12 of the Village Code.

Add as an additional section:

Section 301.3 Protection of Occupants/Public

Whenever and wherever, within the jurisdiction of the Village of Minooka a condition is found in any building, lot or premises, that in the joint opinion of the building and zoning officer and fire code official is ambiguous but still remains as part of the provisions of this Chapter, but that requires correction or removal for the protection of the occupants or the public, the building and zoning officer and fire code official, shall order such conditions corrected or removed and the owner or occupant of such buildings, lots, or premises shall comply with such order. The building and zoning officer and fire code official will refer to the most applicable building and fire code sections of the current code.

Add as an additional section:

316.7 Truss construction emblems

The owner of any commercial or industrial structure, or any multiunit residential structure of three (3) units or more, that uses light-frame truss-type construction shall allow the marking of the structure with a truss construction emblem so as to provide warning to persons conducting fire control and other emergency operations of the existence of light-frame truss-type construction in the structure. The truss construction emblem shall be provided by the *fire code official* and shall be permanently affixed to the building as directed by the *fire code official*.

503.1.4 Fire Apparatus Access and Review

Add as additional paragraph to the section:

All fire apparatus access road and fire lanes shall be reviewed and recommendations made by the fire code official and approved by the village engineer.

503.2.1 Dimensions

Add as an additional sentence to the paragraph

Unless otherwise increased by the *fire code official* due to apparatus size and access concerns, **for any new construction and with the village consent and approval.**

503.2.3 Surfaces

Fire apparatus access roads shall be designed and maintained to **Village Engineering Standards.**

Add as an additional sentence to the paragraph:

It is the responsibility of the property owner to maintain the surface of the fire access road/lanes at all times, including the maintenance of a clear path for fire apparatus staging and/or parking.

503.2.9 Private Drive Identification

Add as an additional paragraph:

It is the responsibility of residents or in the case of Homeowners Association to provide *approved* address markings at the intersection of a private drive and the public right of way so that the fire district and police department can identify the addresses down extended private lanes. In the event there are multiple buildings or residences that branch from the private drive, the address must be placed on the building or residence which is visible upon approach.

506.1 Where required.

Add as additional paragraphs:

All access roads protected by an automatic gate shall be provided with an access system *approved* by the *fire code official* allowing the fire district rapid access to the property in the event of a fire, alarm, or other emergency.

All buildings/units with automatic fire alarm systems, automatic fire suppression systems, and/or medical alert systems shall have installed a key lock box in a location(s) approved by the fire code official, for access during an activation of an alarm and/or emergency.

507.2.3 Dimension of Water Supply Mains

Add as an additional paragraph

Water mains supplying water to required hydrant system shall not be less than eight (8) inches in diameter.

507.5.1- Where required (Fire Hydrants).

Add as an additional paragraph:

The maximum hydrant spacing shall be no more than four hundred (400) feet apart. Hydrants in areas zoned multi-family, commercial, industrial or mixed occupancy shall be spaced no farther than three hundred (300) feet apart except as provided in Appendix C that may require spacing between hydrants to be less than three hundred (300) feet based on fire flow requirement. Spacing shall be measured as normal roadway travel between hydrants on an adjacent, all weather, and public road as hose can be laid from a fire district apparatus and in accordance. All hydrants shall be located within sixteen (16) inches of the paved portion of an all-weather public roadway with a minimum setback from curbs or edges of pavement. Variances may be required by the local authority.

Add as an additional section:

507.5.1.2 Hydrant for FDC

Additional fire hydrants shall be located in an *approved* location of the Fire District Connection (FDC).

Add as an additional section:

607.9 – Elevator size specifications

Elevator cars shall be of size and dimensions to accommodate the ambulance stretcher used by the Fire Protection District. In the buildings two stories in height or more, and required to have an elevator, at least one elevator shall be of such size and arrangement to accommodate a twenty-four (24) inch by eighty-four (84) inch ambulance stretcher in the horizontal, open position. The diagonal inside measurements of the elevator car shall not be less than ninety-six (96) inches. When two elevators are provided in the building and only one is “stretcher” compliant the “stretcher” compliant elevator shall be identified by the international symbol for emergency medical services (Star of Life) that is not less than three (3) inches high and shall be placed on the elevator door frame on each floor. The inside hand rail shall be set at a the maximum thirty-six (36) inch height allowed under the American with Disabilities Act (ADA) standards to better accommodate the stretcher. The cab size is to be a minimum five (5) foot by seven (7) foot platform and minimum two thousand five hundred (2,500) lb. capacity with a forty-two (42) inch slide door.

Add as an additional section:

607.9.1 – Elevator Communications

All required emergency elevator phones shall directly dial either a 24/7 manned front desk or the Fire Protection District's Communications Center via the phone number designated by the *fire code official*

SECTION 901- FIRE PROTECTION SYSTEMS GENERAL

Section 901.4.6- Pump and riser room size.

Add as additional paragraph:

All fire sprinkler control rooms and fire pump rooms shall be accessible by a direct outside access door and accessible from inside the building. The doors shall be marked with 6 inch lettering identifying the rooms. The fire sprinkler control room shall be provided with a one hour separation from the remaining building.

Add the following section:

901.11 Multi Tenant Occupancy

When an automatic suppression system is installed in a multi tenant building, each tenant shall have its own sprinkler supply line off the main or riser with its own water flow switch and control valve. A strobe light shall be mounted on the exterior front of that tenant. The strobe light shall activate upon water flow and/or fire alarm activation within the individual unit.

Section 902.1 Definitions

Add the following definitions:

Fire Area. The aggregate floor area bounded by the exterior walls of a building; regardless of fire walls, fire barriers, or fire resistance-rated horizontal assemblies.

Fire Area is defined as the entire building that cannot be subdivided into multiple fire areas to permit the omission of automatic fire sprinklers.

Section 903.2 Where required.

Approved automatic sprinkler systems in new buildings and structures shall be provided in locations described in Sections 903.2.1 through 903.2.12.

Amend as follows:

Approved automatic sprinkler systems shall be provided in all use groups and every fire area shall be provided with an automatic fire sprinkler system installed in accordance with the requirements of the applicable standards; NFPA 13, NFPA 13R, NFPA 13D. All fire areas stated as 12,000 square feet or greater shall be reduced to 0 square feet. The *fire code official* shall approve any exempt locations for fire sprinkler coverage. Provide in all use groups S and F with a ceiling roof height of twenty five (25) feet or greater with an Early Suppression Fast Response (ESFR) fire sprinkler system or a hydraulically calculated system for Class IV commodities with rack storage calculated to the greatest storage height. All fire sprinkler systems shall be supervised by an approved automatic fire alarm system directly connected to the Fire Districts dispatch center.

The exception as specified in IFC 2015 Section 903.2 shall apply in addition to the following:

Exceptions:

1. Mobile portable storage buildings as determined by *fire code official*.
2. Group R3 homes of less than 5,000 square feet living space.
3. Mobile retail estate sales and constructions trailers utilized during the development of property when approved by the *fire code official*.
4. Occupancy Group S where fire area is less than 12,000 square feet, and ceiling roof height is less than twenty-five (25) feet. This exception shall not apply to S-1 buildings that include bulk storage cloth, burlap and paper, books and paper in rolls or packs; cardboard and cardboard boxes; furniture, tires, upholstery, mattresses which for the purpose of this ordinance is classified as Group H.
5. Occupancy Group U buildings as an accessory building to other occupancy classifications and is under 12,000 square feet.

903.3.5 Age of Hydraulic Data

Insert as additional to the section:

Hydrant water flow data used for the design of any sprinkler system shall be measured as required by the Village, but in no circumstance will be older than three (3) years. The Village may require updated flow data to be collected as a result of changes to water system design, usage, or demand in a period more recent than three years.

903.3.8.6 Hydraulic Calculations Nameplate

Insert as additional to the section:

A hydraulic nameplate shall be attached to the riser for each hydraulically calculated area.

903.4 Sprinkler system supervision and alarms

All valves controlling the water supply for *automatic sprinkler systems*, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised by a *listed* fire alarm control unit.

903.4.1 Monitoring

Alarm, supervisory and trouble signals shall be distinctly different and shall be automatically transmitted to an *approved* supervising station or, where *approved by the fire code official*, shall sound an audible signal at a constantly attended location.

Includes exceptions, not be amended.

Add as additional section:

903.4.1.1 Reporting directly to the Fire District Communication Center

The *approved* method is defined as all fire alarms shall connect directly to the Fire Protection District Dispatch Center via a radio alarm monitoring system. The method of connection shall be of a type compatible with monitoring system available at the Dispatch center and approved by the *fire code official*.

903.4.1.2 Method

Alarm, supervisory, and trouble signals shall be distinctly different and shall be automatically transmitted to Central Station or Remote Supervisory Stations by a two-way private radio alarm system complying with NFPA 72, which automatically retransmits trouble, supervisory and full fire alarm signals to the Fire District Dispatch center.

Section 903.4.2 Alarms

An approved device shall be a clear strobe located on the exterior of the building in an *approved* location, shall be connected to each *automatic sprinkler system*. Such sprinkler water flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. When the fire alarm system is installed, actuation of the *automatic sprinkler system* shall actuate the building fire alarm system.

Delete this section and insert the following for local jurisdiction:

Approved audible and visible appliances shall be connected to each automatic sprinkler system in accordance with this section. Sprinkler system water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system.

Insert as additional section:

903.4.2.1 Exterior appliances. Visible appliances.

A red 75 cd, weather-proof strobe light and 10" bell shall be provided above the fire department connection. The strobe light shall be supervised by the fire alarm system and shall only operate upon waterflow activation.

903.4.2.1.1 Audible appliances

An audible appliance supervised by the fire alarm system, 10 inch, 120VDC alarm bell, horn/strobe (clear) shall be provided above the fire department connection.

903.4.2.1.2 Interior appliances

Interior audible and visible alarms supervised by a fire alarm system shall be provided in accordance with Section 907.5 and subsections.

Insert as additional section:

903.4.2.2 Interior appliances

Interior and visible alarms supervised by a fire alarm system shall be provided in accordance with Section 907.5 and subsections.

Insert as additional section:

903.4.2.3 Inspector test valve accessibility

Fire sprinkler inspectors test valves shall be accessible at all times and located no more than 6 feet above the finished floor. On multiple riser systems test valves shall be marked as to which riser area it tests.

903.4.3 Floor control valves.

Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in high-rise buildings.

Delete this section and insert the following for local jurisdiction:

Indicating control valves and water flow switches shall be provided at the point of connection to the riser on each floor in multiple story buildings.

Add as additional section:

903.4.3.1 Sprinkler control valves

Add as additional section:

All sprinkler control valves shall be equipped with electronic supervision (tamper switches) in accordance with NFPA 72. All new tamper switches installed shall have the capability to self-restore. All supervisory signals shall be transmitted directly to the Fire Protection District main dispatch Communication Center.

Add as an additional section:

903.4.4 Additional Detection Features

Add as an additional section:

Where automatic sprinkler provide protection to an area with an approved flow switch interconnected to the fire alarm system, and is easily identifiable as to the location, additional automatic detectors are not required. When a building has numerous rooms protected by the zone sprinkler system, the *fire code official* may require additional smoke detectors for a more rapid means to identify the location of smoke or fire.

Insert as additional section:

903.7 Exterior Control Valve Room Access

Provide an outside access door to the sprinkler riser valve room and fire pump room.

Add as an additional section:

903.8 Hydraulic Nameplate

Add as an additional section:

By each hydraulically calculated area, on each drawing, provide a copy of the hydraulic nameplate.

Add as an additional section:

903.9 Fire pump test header

Add as an additional section:

Provide an outside test header on all fire pump installations. An OS&Y control valve shall be provided on all fire pump test headers.

Add as an additional section:

903.11 Hydraulic calculations

Add as an additional section:

Provide a minimum 5-psi minimum safety factor in the fire protection system hydraulic calculation. The system demand shall be 5-psi minimum below the seasonal low water flow test supply. The safety factor will allow for low pressures in the water supply. By each hydraulic calculated area, on each drawing,

provide a copy of the hydraulic nameplate. This will make it easier to check the hydraulics of the sprinkler system for future building or storage changes.

Add as an additional section

904.12.6.4– Kitchen Exhaust Hood & Duct

All new automatic fire extinguishing systems for commercial cooking systems installed after the effective date of this ordinance shall automatically transmit activation fire alarm signal to the Fire Protection District dispatch center over an approved fire alarm system.

Add as an additional section

904.14 – Hood and duct systems

All hood and duct extinguishing systems for commercial kitchen areas requiring such a system, shall be approved UL 300 system for the following:

- 1.New Construction
- 2.Remodeling rehab of existing systems
- 3.Appliance line changes including the installation of high efficiency/high recovery fryers

Add as an additional section

904.14.1 – Hood extinguishing agent

All existing commercial kitchen systems requiring a hood and duct system shall be required to have at least one, 6 liter, type K extinguisher.

Add as an additional section:

Section 905.2.1 General

Standpipes for fire hose connections shall be supplied from a separate riser. Two and one half (2 ½) inch valves shall be supplied by a four (4) inch riser with two and one half (2 ½) inch drops to each valve.

Section 905.3 Required installations

Add the following paragraph:

All required standpipe systems shall be supplied by a separate riser. The supply riser shall be hydraulically designed to supply 2 ½" hose drops. The riser system shall be equipped with a separate control valve and flow switch. The standpipe shall be a 2 ½" and all locations shall be approved by the Code Official. All standpipe and sprinkler risers shall have separate control valves and flow switches per floor.

Section 905.3.1 Height.

Delete text and insert the following:

Class III standpipe systems shall be installed throughout new constructed buildings more than two (2) stories in height or more than two (2) stories below the level of the fire district vehicle access so that all areas on those floors are within 120 feet of a standpipe. There shall be an approved fire district connection at grade and hose connections located at each floor level.

Exceptions 1 through 5 shall remain

Add as additional sections: 905.12 through 905.14

905.9 Valve Supervision

Add as an additional paragraph:

Valves controlling fire hose connections shall be the field adjustable type approved by the authority having jurisdiction.

Add as an additional section:

905.12 Piping design

The riser piping, supply piping and the water service piping shall be sized to maintain a residual pressure of at least 65 psi (448kPa) at the topmost outlet of each riser. The piping size shall be based on the capacity of the automatic water supply system or, where as automatic water supply is neither required nor provided to maintain the residual pressure of 65 psi, the pipe size shall be on a pressure of 150 psi available at the fire district connection.

Exception: One – and two – family dwellings

Add as an additional section:

905.13 Riser sizing

The riser size shall be based on the hydraulic calculations for a minimum flow of 500 gallons per (gpm) (378 L/min.).

Exceptions:

1. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the riser shall be sized to satisfy total demand.
2. For occupancies Use Group B, I, R1, or R2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3, each riser shall be sized for a minimum flow of 250 gpm (945 L/min.).
3. Risers that are sized in accordance with the pipe schedule requirements of NFPA 14 listed in Chapter 35 are not subject to this requirement.

Add as an additional section:

905.14 System pipe sizing

The system piping, including the horizontal or common feeder lines, shall be sized for a minimum flow of 500 gpm (1892 L/min.). Where more than one standpipe riser is required or provided, all common system piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 1,250 gpm (4731 L/min.).

Exceptions:

1. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the supply piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) plus the sprinkler demand for first riser, plus 250 gpm (945 L/min.) for each additional riser, and the total shall be required to exceed 1,250 gpm (4731 L/min.).
2. For occupancies in Use Group B, I, R-1, or R2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3, all common supply piping shall be sized for a minimum flow of 250 gpm (945 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 750 gpm (2838 L/min.).

Add as an additional section:

907.1.4 Exceptions for Small Fire Alarm Systems

All fire alarm systems shall be of the addressable type.

Section 907.2 Where required-new buildings and structures.

Delete text and insert the following:

An approved fire alarm system shall be installed in accordance with the provisions of this code and NFPA 72 in all new occupancy classifications. The fire alarm shall be installed in accordance with the provisions of this code and NFPA 72 and shall be provided as follows:

- A. A complete fire alarm system consisting of smoke detection, heat detection, pull stations and audio/visual notification devices shall be installed in all use groups.
- B. All fire alarm systems shall be directly connected to the fire district dispatch center by system that is compatible to be received in the center in accordance with this ordinance.
- C. Fire alarm control panels shall be located in the fire sprinkler control room, where applicable, or where approved by the *fire code official*.
- D. Fire alarm control panels shall be of the addressable type.
- E. All new nonresidential multiple tenant buildings shall be "ring by tenant" activated by the fire, a fire sprinkler system flow switch for the tenant space or automatic fire detection and shall include a weatherproof clear outside strobe over the entrance to each tenant space as approved by the fire code official. All outside strobes shall be seventy-five (75) candela minimum.
- F. Exception:
 - a. Group R –single and multi-family dwellings less than 5,000 square feet of living space; attached & detached, shall not be fire suppressed if three stories or less; or structures covered under the IBC.
 - b. Occupancy Group U buildings as an accessory building to other occupancy classifications and is under 12,000 square feet.

Add as a new section:

907.2.2.4 Where required-new buildings and structures

Buildings and structures not provided throughout with an automatic sprinkler system. A fire alarm system utilizing automatic fire detectors and manual fire alarm devices shall be provided throughout all buildings not provided with an automatic sprinkler system complying with NFPA 13 or NFPA 13R.

907.4.2.5 Protective covers

Delete text and insert the following:

Listed manual fire alarm box protective covers *shall be provided for all installed manual fire alarm boxes* to prevent malicious false alarms or to provide the manual fire alarm box with protection from physical damage.

907.5 Occupant notification systems

Delete text and insert the following:

A fire alarm system shall annunciate at the fire alarm control unit and shall initiate occupant notification upon activation, in accordance with Sections 907.5.1 through 907.5.2.3.4. The activation of any of the following devices shall result in occupant notification:

1. Automatic fire detectors.
2. Automatic sprinkler system waterflow devices.
3. Manual fire alarm boxes.
4. Automatic fire-extinguishing systems when installed in buildings or structures that are provided with occupant notification.

Add as an additional section:

907.5.2.3.4 Multi-tenant Group M.

In single story, multi-tenant Group M buildings shall be “ring by tenant” activated by a fire sprinkler system flow switch for each space, or manual and automatic fire detection and shall include a weatherproof clear outside strobe over the entrance to each tenant space as directed by the fire department. All outside strobes shall be 75 candela minimum.

Section 912.2.1 Visible location

Add the following paragraph:

An approved sign mounted in a location specified by the *fire code official* shall be installed and maintained near the fire district connection. Such sign shall have the letters “FDC” at least 6 inches high to indicate the location. All such signs shall be subject to the approval of the *fire code official*

912.3 Fire hose threads

Delete text and insert the following:

All fire department connections shall be as specified by the responsible fire protection district, **with consent from the Village of Minooka.**

Section 913.4.1 Test outlet valve supervision

Fire pump test outlet valve shall be supervised in the closed position

Add the following:

- A. Provide an OS&Y control valve on all fire pump test headers.
- B. Provide an outside test header on all fire pump installations.

Add as an additional section:

913.4.2 Fire pump test header

- a. Add-provide an OS&Y control valve on all fire pump test headers.
- b. Provide an outside test header on fire pump installations.

1008.3.3 Rooms and Spaces

Add as a new number 6:

All rooms containing the building fire sprinkler and standpipe riser(s) and fire alarm control panel(s).

Chapter 80

Revise all listed NFPA standards in IBC Chapter 35 and IFC Chapter 80 to include the latest edition available as of the effective date of the adoption of the 2015 IBC and IFC.

SECTION 3. In the event that any provision or provisions, or portion or portions of this Ordinance shall be declared invalid or unenforceable by a Court of competent jurisdiction, such adjudication shall in no way affect or impair the validity or enforceability of any or the remaining provision or provisions, portion or portions.

SECTION 4. That all ordinances or parts of ordinances conflicting with any of the provisions of this Ordinance shall be and the same is hereby repealed.

SECTION 6. That the Village Clerk is hereby directed to publish this Ordinance in pamphlet form.

SECTION 7. That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

PRESENTED and passed by the Board of Trustees on a roll call vote on the 23rd day of January, 2018 with 6 Trustees voting aye, 6 Trustees voting nay, 0 Trustees abstaining, and with 0 Trustees absent, President BRENNAN voting —: said vote being: HOUCHENS Aye, MARTIN Aye, THOMPSON Aye, PARRISH Aye, DEAHL Aye, and HRECHKO Aye.

Kristi Lamontagna
Kristi Lamontagna, Village Clerk



APPROVED this 24th day of January, 2018.

Patrick J. Brennan
Patrick J. Brennan, Village President

Kristi Lamontagna
Kristi Lamontagna, Village Clerk

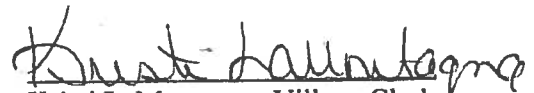
STATE OF ILLINOIS)
) SS
COUNTY OF GRUNDY)
COUNTY OF KENDALL)
COUNTY OF WILL)

I, the undersigned, Clerk of the Village of Minooka, State of Illinois, do hereby certify that the foregoing is a true and correct copy of an ordinance (2018-06) entitled "An Ordinance Adopting the 2015 International Fire Code and Amending Title 4, Chapter 2, Section 11 of The Village Code" which was duly passed on roll call vote by a vote of 6 ayes and 0 nays with 0 absent of the President and Board of Trustees of the Village of Minooka on the date shown on the ordinance.

I do further certify that I am the legal custodian of all papers, documents and records of said Village.

I do further certify that there are six trustees of the Village authorized by law to be elected.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Village of Minooka this 23rd day of January, 2018.


Kristi LaMontagna, Village Clerk



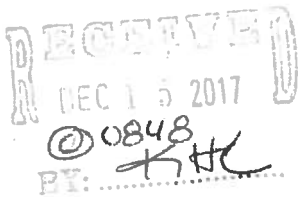


EXHIBIT A

Village of Minooka FIRE PREVENTION CODE

ADOPTION OF THE INTERNATIONAL FIRE CODE 2015 EDITION WITH AMENDMENTS

The 2015 edition of the International Fire Code, including appendix B, C, D, F, H, I, K, L, and M as published by the International Code Council is hereby adopted as the Village of Minooka ("Village") Fire Code ("Code"), which shall regulate and govern the safeguarding of life and property from the hazards of fire and explosion arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the use or occupancy of existing or proposed new buildings or premises. The Code shall also regulate and govern the issuance of permits and collection of fees therefore. Each and all of the regulations, provisions, penalties, conditions and terms of said Code on file in the Village of Minooka are hereby referred to, adopted, and made a part hereof, as if fully set out in this legislation, with the additions, insertions, deletions, and changes as are hereafter set forth. Nothing in this code shall affect single and multifamily dwellings, attached or detached, that do not exceed three stories in height.

101.1 Title.

Village of Minooka.

103.1 General

Delete this section

103.2 Appointment.

Delete text and replace with the following:

The Village of Minooka appoints the Minooka Fire Protection District Fire Chief as its fire code official. The Village building and zoning officer shall be the Village's liaison with the fire code official and shall retain those responsibilities under this Code not herein delegated to the fire code official; however, the building and zoning officer may request the advice and recommendation of the fire code official in the performance of his or her duties and contract, with approval of the Village Board, with third party consultants for plan review and recommendation in the execution of any other duties requiring specific expertise in fire protection.

The building and zoning officer may recommend policies and procedures to the Village board that he or she deems appropriate to carry out the enforcement of this Code, and may request the advice of the fire code official in recommending any such policies or procedures.

103.3 Deputies

Delete text and replace with the following:

The fire code official may, at his or her discretion, assign duties of the fire code official under this Code to his or her subordinates, as appropriate.

104.1 General

Delete text and replace with the following:

Except where the Village has contracted with and relied upon a third party for services related to the interpretation and enforcement of this Code, the fire code official's ~~shall have the authority to render~~ interpretation of this Code and ~~to recommend~~ policies, procedures, rules and regulations shall be taken under consideration by the ~~to the~~ Village in order to clarify application of its provisions. ~~Such~~

recommendations shall be in compliance with the intent and purpose of this Code and shall not have the effect of waiving requirements specifically provided for in this code.

104.2 Application and permits.

Replace "fire code official" with "building and zoning officer."

104.5 Notice and orders

Delete text and replace with the following:

Should the fire code official find a violation of this code during an inspection required under this code, he or she shall issue a notice of violation to the premises owner, with a warning to correct the violation within thirty (30) days of the date of the notice of violation. After thirty (30) days have elapsed from the date the notice of violation and warning were issued, the fire code official shall reinspect the premises. If the violation has been found corrected upon reinspection, no further action will be taken. If the violation has not been corrected by the reinspection date, the fire code official shall notify the building and zoning officer within two business days after the reinspection.

Upon notice from the fire code official of the uncorrected violation, the building and zoning officer shall verify the violation has not been corrected. If the violation has not been corrected, the building and zoning officer is authorized to issue a violation notice and report form in the name of the Village. Violations shall be adjudicated pursuant to Title I, Chapter 18 of the Village Code for Building Code Adjudication. The building and zoning officer may reinspect the premises prior to hearing under Title I, Chapter 18, upon request from the owner or occupant of the premises.

Comment [MHI]: Changed to "notice" to comport with the Village's adjudication ordinance.

~~Should the fire code officer find a violation during an inspection, he or she shall issue a violation notice and warning report the findings to the building and zoning officer. The fire code official building and zoning officer is authorized to issue a violation notice ticket and report form in the name of the Village when a violation of this Code is found during an inspection authorized under this Code. Hearing shall be as provided in Title I, Chapter 18 of the Village Code for the Village's Building Code Adjudication.~~

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~~Within 30 days of the fire code building and zoning official's issuance of the violation notice and report, he or she shall perform a follow-up inspection to determine whether the alleged violations have been corrected. If the violations have been corrected, the fire code official shall so inform the Code Hearing Department, and the matter shall be dismissed by the Village.~~

~~If upon fire code building and zoning official's reinspection the violations have not been corrected, the fire code official shall so notify the Code Hearing Department, and the matter may be continued at the first hearing by the hearing officer to allow additional time for the correction of the alleged violations.~~

~~If the matter is continued after the initial hearing date for additional time to correct any alleged violations, the fire code building and zoning official shall conduct a final reinspection within 25 days of the original hearing date. If the violations have been corrected, the fire code official shall notify the Code Hearing Department, and the matter will be dismissed. If the alleged violations have not been corrected, the matter shall go to hearing, unless good cause is shown.~~

106.6.4 Administrative.

Delete this section.

104.7 – 104.9.2

Replace "fire code official" with "building and zoning officer."

Section 105: Permits

Replace "fire code official" with "building and zoning officer."

105.4.2.1 Fire Protection Shop Drawings

Add the following:

For each hydraulically calculated automatic fire sprinkler system area identified, on submitted shop drawings, provide a copy of the hydraulic name plate.

105.4.2.3 Plan Review and Site Inspection Fee Schedule

Add as additional sections for local jurisdiction

Each applicant shall submit three (3) printed sets and an electronic copy of sprinkler, fire alarm, and construction documents essential for third party review. All fees to be directly paid to the third party review firm.

106.1 Inspection authority.

Add after "fire code official" "and building and zoning officer." Replace "is" with "are."

106.2: Inspections.

Add after "fire code official" "and building and zoning officer." Replace "is" with "are."

108.1 Board of appeals established.

Delete this section.

109.3 Notice of violation.

Add "or building code officer" after "fire code official."

109.3.1 Service.

Delete this paragraph and insert the following:

Notices of violation shall be served as provide in Title I, Chapter 18 of the Village Code for the Village's Building Code Adjudication.

109.3.3 Prosecution of violations.

Replace "fire code official with "building and zoning officer."

109.3.1 Service.

Delete this section and insert the following:

Notices of violation shall be served as provide in Title I, Chapter 18 of the Village Code for the Village's Building Code Adjudication.

109.3.3 Prosecution of violations.

Delete this section.

109.4.1 Abatement of Violation.

Replace "fire code official" with "Village."

Section 111: Stop Work Order

Replace "fire code official" with "building and zoning officer."

111.4 Failure to Comply

Replace that part beginning with "Shall be liable. . . ." with the following:
shall be punished as provided in Section 4-2-12 of the Village Code.

Add as an additional section:

Section 301.3 Protection of Occupants/Public

Whenever and wherever, within the jurisdiction of the Village of Minooka a condition is found in any building, lot or premises, that in the joint opinion of the building and zoning officer and fire code official is ambiguous but still remains as part of the provisions of this Chapter, but that requires correction or removal for the protection of the occupants or the public, the building and zoning officer and fire code official, shall order such conditions corrected or removed and the owner or occupant of such buildings, lots, or premises shall comply with such order. The building and zoning officer and fire code official will refer to the most applicable building and fire code sections of the current code.

Add as an additional section:

316.7 Truss construction emblems

The owner of any new-commercial or industrial structure, or any multiunit residential structure of three (3) units or more, that uses light-frame truss-type construction shall allow the marking of the structure with a truss construction emblem so as to provide warning to persons conducting fire control and other emergency operations of the existence of light-frame truss-type construction in the structure. The truss construction emblem shall be provided by the *fire code official* and shall be permanently affixed to the building as directed by the *fire code official*.

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503.1.4 Fire Apparatus Access and Review

Add as additional paragraph to the section:

All fire apparatus access road and fire lanes shall be reviewed and recommendations made by the fire code official and approved by the village engineer.

503.2.1 Dimensions

Add as an additional sentence to the paragraph

Unless otherwise increased by the *fire code official* due to apparatus size and access concerns, for any new construction and with the village consent and approval.

503.2.3 Surfaces

Fire apparatus access roads shall be designed and maintained to Village Engineering Standards support the imposed loads of fire apparatus and shall be surfaced so as to provide all weather driving capabilities.

Add as an additional sentence to the paragraph:

It is the responsibility of the property owner to maintain the surface of the fire access road/lanes at all times, including the maintenance of a clear path for fire apparatus staging and/or parking.

503.2.9 Private Drive Identification

Add as an additional paragraph:

It is the responsibility of residents or in the case of Homeowners Association to provide *approved* address markings at the intersection of a private drive and the public right of way so that the fire district and police department can identify the addresses down extended private lanes. In the event there are multiple buildings or residences that branch from the private drive, the address must be placed on the building or residence which is visible upon approach.

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506.1 Address Identification

Replace "4 inches (102mm)" with 6 inches (152 mm)".

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Add as an additional section:

607.9 – Elevator size specifications

Elevator cars shall be of size and dimensions to accommodate the ambulance stretcher used by the Fire Protection District. In the buildings two stories in height or more, and required to have an elevator, at least one elevator shall be of such size and arrangement to accommodate a twenty-four (24) inch by eighty-four (84) inch ambulance stretcher in the horizontal, open position. The diagonal inside measurements of the elevator car shall not be less than ninety-six (96) inches. When two elevators are provided in the building and only one is "stretcher" compliant the "stretcher" compliant elevator shall be identified by the international symbol for emergency medical services (Star of Life) that is not less than three (3) inches high and shall be placed on the elevator door frame on each floor. The inside hand rail shall be set at a the maximum thirty-six (36) inch height allowed under the American with Disabilities Act (ADA) standards to better accommodate the stretcher. The cab size is to be a minimum five (5) foot by seven (7) foot platform and minimum two thousand five hundred (2,500) lb. capacity with a forty-two (42) inch slide door.

Add as an additional section:

607.9.1 – Elevator Communications

All required emergency elevator phones shall directly dial either a 24/7 manned front desk or the Fire Protection District's Communications Center via the phone number designated by the *fire code official*

SECTION 901- FIRE PROTECTION SYSTEMS GENERAL

Section 901.4.6- Pump and riser room size.

Add as additional paragraph:

All fire sprinkler control rooms and fire pump rooms shall be accessible by a direct outside access door and accessible from inside the building. The doors shall be marked with 6 inch lettering identifying the rooms. The fire sprinkler control room shall be provided with a one hour separation from the remaining building.

Add the following section:

901.11 Multi Tenant Occupancy

When an automatic suppression system is installed in a multi tenant building, each tenant shall have its own sprinkler supply line off the main or riser with its own water flow switch and control valve. A strobe light shall be mounted on the exterior front of that tenant. The strobe light shall activate upon water flow and/or fire alarm activation within the individual unit.

Section 902.1 Definitions

Add the following definitions:

Fire Area. The aggregate floor area bounded by the exterior walls of a building; regardless of fire walls, fire barriers, or fire resistance-rated horizontal assemblies.

Fire Area is defined as the entire building that cannot be subdivided into multiple fire areas to permit the omission of automatic fire sprinklers.

Section 903.2 Where required.

Approved automatic sprinkler systems in new buildings and structures shall be provided in locations described in Sections 903.2.1 through 903.2.12.

Amend as follows:

Approved automatic sprinkler systems shall be provided in all use groups and every fire area shall be provided with an automatic fire sprinkler system installed in accordance with the requirements of the applicable standards; NFPA 13, NFPA 13R, NFPA 13D. All fire areas stated as 12,000 square feet or greater shall be reduced to 0 square feet. The *fire code official* shall approve any exempt locations for fire sprinkler coverage. Provide in all use groups S and F with a ceiling roof height of twenty five (25) feet or greater with an Early Suppression Fast Response (ESFR) fire sprinkler system or a hydraulically calculated system for Class IV commodities with rack storage calculated to the greatest storage height. All fire sprinkler systems shall be supervised by an approved automatic fire alarm system directly connected to the Fire Districts dispatch center.

The exception as specified in IFC 2015 Section 903.2 shall apply in addition to the following:

Exceptions:

1. Mobile portable storage buildings as determined by *fire code official*.
2. Group R3 homes of less than 5,000 square feet living space.
3. Mobile retail estate sales and constructions trailers utilized during the development of property when approved by the *fire code official*.
4. Occupancy Group S where fire area is less than 12,000 square feet, and ceiling roof height is less than twenty-five (25) feet. This exception shall not apply to S-1 buildings that include bulk storage cloth, burlap and paper, books and paper in rolls or packs; cardboard and cardboard boxes; furniture, tires, upholstery, mattresses which for the purpose of this ordinance is classified as Group H.
5. Occupancy Group U buildings as an accessory building to other occupancy classifications and is under 12,000 square feet.

903.3.5 Age of Hydraulic Data

Insert as additional to the section:

Hydrant water flow data used for the design of any sprinkler system shall be measured as required by the Village, but in no circumstance will be older than three (3) years. The Village may require updated flow data to be collected as a result of changes to water system design, usage, or demand in a period more recent than three years.

903.3.8.6 Hydraulic Calculations Nameplate

Insert as additional to the section:

A hydraulic nameplate shall be attached to the riser for each hydraulically calculated area.

903.4 Sprinkler system supervision and alarms

All valves controlling the water supply for *automatic sprinkler systems*, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised by a *listed* fire alarm control unit.

~~Delete this section and insert the following for local jurisdiction:~~

~~Alarm, supervisory and trouble signals shall be distinctly different and shall be electrically supervised by a fire alarm system.~~

903.4.1 Monitoring

Alarm, supervisory and trouble signals shall be distinctly different and shall be automatically transmitted to an *approved* supervising station or, where *approved by the fire code official*, shall sound an audible signal at a constantly attended location.

Includes exceptions, not be amended.

Add as additional section:

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506.1 Where required.

Add as additional paragraphs:

All access roads protected by an automatic gate shall be provided with an access system *approved* by the fire code official allowing the fire district rapid access to the property in the event of a fire, alarm, or other emergency.

All buildings/units with automatic fire alarm systems, automatic fire suppression systems, and/or medical alert systems shall have installed a key lock box in a location(s) approved by the fire code official, for access during an activation of an alarm and/or emergency. ~~Permanently mounted key lock box shall be equipped with a tamper switch device that indicates when access is made and when the box is removed from its mounted location. For new construction tamper switches shall be wired to the burglar alarm if one is available, otherwise to the fire alarm and provided a dedicated zone.~~

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507.2.3 Dimension of Water Supply Mains

Add as an additional paragraph

Water mains supplying water to required hydrant system shall not be less than eight (8) inches in diameter.

Add as an additional section:

507.2.4 Dead end mains

~~One or two family residential developments may have hydrants supplied by a dead end water line where there are 20 or fewer dwelling units protected by the supply. Dead end water mains shall not exceed six hundred (600) feet of eight (8) inch pipe. Hydrants located on dead end water mains shall have "dead end" disk attached to the steamer outlet of the hydrant.~~

Add as an additional section:

507.2.5 Looped water supply line requirement

~~Fire hydrants in areas zoned multi-family, commercial, industrial or mixed occupancy shall be on a looped (receiving water from more than one direction) water supply line of an approved size for the development when required by the Village and determined acceptable by the Village engineer.~~

507.5.1- Where required (Fire Hydrants).

Add as an additional paragraph:

The maximum hydrant spacing shall be no more than four hundred (400) feet apart. Hydrants in areas zoned multi-family, commercial, industrial or mixed occupancy shall be spaced no farther than three hundred (300) feet apart except as provided in Appendix C that may require spacing between hydrants to be less than three hundred (300) feet based on fire flow requirement. Spacing shall be measured as normal roadway travel between hydrants on an adjacent, all weather, and public road as hose can be laid from a fire district apparatus and in accordance. All hydrants shall be located within sixteen (16) inches of the paved portion of an all-weather public roadway with a minimum setback from curbs or edges of pavement. Variances may be required by the local authority. ~~Hydrants shall be marked by hydrant locators so they may be seen even when concealed (507.5.8). No hydrant should be located closer than 50 feet from any existing or anticipated exposing structure in commercial and manufacturing areas. Where streets are provided with median dividers that cannot be crossed by fire apparatus laying hose lines, hydrant spacing shall be on each side of the street arranged on an alternating basis. All hydrants added after adoption of this ordinance shall be provided with Storz fitting on the 5" outlet.~~

Add as an additional section:

507.5.1.2 Hydrant for FDC

Additional fire hydrants shall be located in an *approved* location within a minimum of seventy-five (75) feet of the Fire District Connection (FDC).

507.5.7 Hydrant Street Locators

~~Add as additional paragraph:~~

~~Fire hydrant locations shall be visually indicated in accordance with Village of Minooka specification, as may be amended from time to time. All fire hydrants installed after the effective date of this chapter shall be required to have fire hydrant marker(s) installed before acceptance. Hydrant markers are to be installed by the developer, owner, or contractor as follows:~~

~~i. As may comply with the department of transportation regulations;~~

~~ii. Areas such as, but not limited to parking lots, loading areas, or storage yards shall have marker location designated by the fire code official.~~

~~Any hydrant marker damaged or removed during the course of street construction or repair shall be immediately replaced by the contractor, developer, or person responsible for removal or damage.~~

903.4.1.1 Reporting directly to the Fire District Communication Center

The *approved* method is defined as all fire alarms shall connect directly to the Fire Protection District Dispatch Center via a radio alarm monitoring system. The method of connection shall be of a type compatible with monitoring system available at the Dispatch center and approved by the *fire code official*.

903.4.1.2 Method

Alarm, supervisory, and trouble signals shall be distinctly different and shall be automatically transmitted to Central Station or Remote Supervisory Stations by a two-way private radio alarm system complying with NFPA 72, which automatically retransmits trouble, supervisory and full fire alarm signals to the Fire District Dispatch center.

Section 903.4.2 Alarms

An approved device shall be a clear strobe located on the exterior of the building in an *approved* location, shall be connected to each *automatic sprinkler system*. Such sprinkler water flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. When the fire alarm system is installed, actuation of the *automatic sprinkler system* shall actuate the building fire alarm system.

Delete this section and insert the following for local jurisdiction:

Approved audible and visible appliances shall be connected to each automatic sprinkler system in accordance with this section. Sprinkler system water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system.

Insert as additional section:

903.4.2.1 Exterior appliances. Visible appliances.

A red 75 cd, weather-proof strobe light and 10" bell shall be provided above the fire department connection. The strobe light shall be supervised by the fire alarm system and shall only operate upon waterflow activation.

903.4.2.1.1 Audible appliances

An audible appliance supervised by the fire alarm system, 10 inch, 120VDC alarm bell, horn/strobe (clear) shall be provided above the fire department connection.

903.4.2.1.2 Interior appliances

Interior audible and visible alarms supervised by a fire alarm system shall be provided in accordance with Section 907.5 and subsections.

Insert as additional section:

903.4.2.2 Interior appliances

Interior and visible alarms supervised by a fire alarm system shall be provided in accordance with Section 907.5 and subsections.

Insert as additional section:

903.4.2.3 Inspector test valve accessibility

Fire sprinkler inspectors test valves shall be accessible at all times and located no more than 6 feet above the finished floor. On multiple riser systems test valves shall be marked as to which riser area it tests.

903.4.3 Floor control valves.

Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor in high-rise buildings.

Delete this section and insert the following for local jurisdiction:

Indicating control valves and water flow switches shall be provided at the point of connection to the riser on each floor in multiple story buildings.

Add as additional section:

903.4.3.1 Sprinkler control valves

Add as additional section:

All ~~new and existing~~ sprinkler control valves shall be equipped with electronic supervision (tamper switches) in accordance with NFPA 72. All new tamper switches installed shall have the capability to self-restore. All supervisory signals shall be transmitted directly to the Fire Protection District main dispatch Communication Center.

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Add as an additional section:

903.4.4 Additional Detection Features

Add as an additional section:

Where automatic sprinkler provide protection to an area with an approved flow switch interconnected to the fire alarm system, and is easily identifiable as to the location, additional automatic detectors are not required. When a building has numerous rooms protected by the zone sprinkler system, the *fire code official* may require additional smoke detectors for a more rapid means to identify the location of smoke or fire.

Add as an additional section:

903.6.1 Interior alterations or remodeling

Add as an additional section:

~~Existing buildings or structures that are remodeled, and that meet any of the criteria listed below, shall provide fire protection as detailed in 903.2:~~

- ~~1. If alteration costs 50% or more of the reproduction cost of the building or structure, the entire building or structure shall comply with the requirements of the construction as defined in this code. The reproduction cost shall be determined by using the recognized standards of an authoritative technical organization. For the purposes of calculating percentages of reproduction cost, the cost of alteration shall be construed as the total actual combined cost of all alterations within any period of 30 months.~~
- ~~2. A 2-hour fire separation wall will be installed for a project that results in an increase or decrease in the total number of tenant spaces within the building or structure.~~
- ~~3. A project that entails a change in Use Group for any part of the building.~~

Add as an additional section

903.6.2 Increasing existing gross floor area by 25% or more up to 50%

Add as an additional section

Fire protection for additions that increase the existing gross floor area of a building or structure by 25% shall provide fire protection for the entire building or structure as detailed in 903.2 or provide an Underwriter Laboratory (UL) listed two-hour approved fire wall separation assembly that extends continuously from the foundation through the roof as defined in section 202 of the IFC, between the existing building and the new addition.

Insert as additional section:

3. Appliance line changes including the installation of high efficiency/high recovery fryers

Add as an additional section

904.14.1 – Hood extinguishing agent

All existing commercial kitchen systems requiring a hood and duct system shall be required to have at least one, 6 liter, type K extinguisher.

Add as an additional section:

Section 905.2.1 General

Standpipes for fire hose connections shall be supplied from a separate riser. Two and one half (2 ½) inch valves shall be supplied by a four (4) inch riser with two and one half (2 ½) inch drops to each valve.

Section 905.3 Required Installations

Add the following paragraph:

All required standpipe systems shall be supplied by a separate riser. The supply riser shall be hydraulically designed to supply 2 ½" hose drops. The riser system shall be equipped with a separate control valve and flow switch. The standpipe shall be a 2 ½" and all locations shall be approved by the Code Official. All standpipe and sprinkler risers shall have separate control valves and flow switches per floor.

Section 905.3.1 Height.

Delete text and insert the following:

Class III standpipe systems shall be installed throughout new constructed buildings more than two (2) stories in height or more than two (2) stories below the level of the fire district vehicle access so that all areas on those floors are within 120 feet of a standpipe. . There shall be an approved fire district connection at grade and hose connections located at each floor level.

Exceptions 1 through 5 shall remain

Add as additional sections: 905.12 through 905.14

~~Add as an additional section:~~

~~905.3.9 Fire Hose Valve Locations—Warehouse Storage~~

~~In all warehouse storage areas exceeding 50,000 square feet, and where storage exceeds 12' high, provide inside 2½" fire hose valves. Locate the valves at each service door entrance to the warehouse and/or storage area. Provide additional 2½" fire hose valves so that no portion of the warehouse and/or storage area is more than 120' maximum travel distance to a fire hose valve. Show the location of all obstructions and/or racks on the drawing.~~

~~_____ The fire hose valves system piping shall be:~~

~~_____ a. _____ A separate riser piping system.~~

~~_____ b. _____ The 2½ " valves shall be supplied by a minimum of 4" with 2½ " drops to each valve.~~

905.9 Valve Supervision

Add as an additional paragraph:

Valves controlling fire hose connections shall be the field adjustable type approved by the authority having jurisdiction.

Add as an additional section:

905.12 Piping design

The riser piping, supply piping and the water service piping shall be sized to maintain a residual pressure of at least 65 psi (448kPa) at the topmost outlet of each riser. The piping size shall be based on the capacity of the automatic water supply system or, where as automatic water supply is neither required nor provided to maintain the residual pressure of 65 psi, the pipe size shall be on a pressure of 150 psi available at the fire district connection.

Exception: One – and two – family dwellings

Add as an additional section:

905.13 Riser sizing

The riser size shall be based on the hydraulic calculations for a minimum flow of 500 gallons per (gpm) (378 L/min.).

Exceptions:

1. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the riser shall be sized to satisfy total demand.
2. For occupancies Use Group B, I, R1, or R2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3, each riser shall be sized for a minimum flow of 250 gpm (945 L/min.).
3. Risers that are sized in accordance with the pipe schedule requirements of NFPA 14 listed in Chapter 35 are not subject to this requirement.

Add as an additional section:

905.14 System pipe sizing

The system piping, including the horizontal or common feeder lines, shall be sized for a minimum flow of 500 gpm (1892 L/min.). Where more than one standpipe riser is required or provided, all common system piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 1,250 gpm (4731 L/min.).

Exceptions:

1. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the supply piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) plus the sprinkler demand for first riser, plus 250 gpm (945 L/min.) for each additional riser, and the total shall be required to exceed 1,250 gpm (4731 L/min.).
2. For occupancies in Use Group B, I, R-1, or R2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3, all common supply piping shall be sized for a minimum flow of 250 gpm (945 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 750 gpm (2838 L/min.).

Add as an additional section:

907.1.4 Exceptions for Small Fire Alarm Systems

All fire alarm systems shall be of the addressable type.

Section 907.2 Where required-new buildings and structures.

Delete text and insert the following:

An approved fire alarm system shall be installed in accordance with the provisions of this code and NFPA 72 in all new occupancy classifications. The fire alarm shall be installed in accordance with the provisions of this code and NFPA 72 and shall be provided as follows:

- A. A complete fire alarm system consisting of smoke detection, heat detection, pull stations and audio/visual notification devices shall be installed in all use groups.
- B. All fire alarm systems shall be directly connected to the fire district dispatch center by system that is compatible to be received in the center in accordance with this ordinance.
- C. Fire alarm control panels shall be located in the fire sprinkler control room, where applicable, or where approved by the *fire code official*.
- D. Fire alarm control panels shall be of the addressable type.
- E. All new nonresidential multiple tenant buildings shall be "ring by tenant" activated by the fire, a fire sprinkler system flow switch for the tenant space or automatic fire detection and shall include a weatherproof clear outside strobe over the entrance to each tenant space as approved by the fire code official. All outside strobes shall be seventy five (75) candela minimum.
- F. Exception:
 - a. Group R -single and multi-family dwellings less than 5,000 square feet of living space; attached & detached, shall not be fire suppressed if three stories or less; or structures covered under the IBC.
 - b. Occupancy Group U buildings as an accessory building to other occupancy classifications and is under 12,000 square feet.

Add as a new section:

907.2.2.4 Where required-new buildings and structures

Buildings and structures not provided throughout with an automatic sprinkler system. A fire alarm system utilizing automatic fire detectors and manual fire alarm devices shall be provided throughout all buildings not provided with an automatic sprinkler system complying with NFPA 13 or NFPA 13R.

907.4.2.5 Protective covers

Delete text and insert the following:

Listed manual fire alarm box protective covers *shall be provided for all installed manual fire alarm boxes to prevent malicious false alarms or to provide the manual fire alarm box with protection from physical damage.*

907.5 Occupant notification systems

Delete text and insert the following:

A fire alarm system shall annunciate at the fire alarm control unit and shall initiate occupant notification upon activation, in accordance with Sections 907.5.1 through 907.5.2.3.4. *The activation of any of the following devices shall result in occupant notification:*

- 1. Automatic fire detectors.
- 2. Automatic sprinkler system waterflow devices.
- 3. Manual fire alarm boxes.
- 4. Automatic fire-extinguishing systems *when installed in buildings or structures that are provided with occupant notification.*

Add as an additional section:

907.5.2.3.4 Multi-tenant Group M.

In single story, multi-tenant Group M buildings shall be "ring by tenant" activated by a fire sprinkler system flow switch for each space, or manual and automatic fire detection and shall include a weatherproof clear outside strobe over the entrance to each tenant space as directed by the fire department. All outside strobes shall be 75 candela minimum.

Section 912.2.1 Visible location

Add the following paragraph:

An approved sign mounted in a location specified by the *fire code official* shall be installed and maintained near the fire district connection. Such sign shall have the letters "FDC" at least 6 inches high to indicate the location. All such signs shall be subject to the approval of the *fire code official*

912.3 Fire hose threads

Delete text and insert the following:

All fire department connections shall be as specified by the responsible fire protection district, with consent from the Village of Minooka.

Section 913.4.1 Test outlet valve supervision

Fire pump test outlet valve shall be supervised in the closed position

Add the following:

- A. Provide an OS&Y control valve on all fire pump test headers.
- B. Provide an outside test header on all fire pump installations.

Add as an additional section:

913.4.2 Fire pump test header

- a. Add-provide an OS&Y control valve on all fire pump test headers.
- b. Provide an outside test header on fire pump installations.

1008.3.3 Rooms and Spaces

Add as a new number 6:

All rooms containing the building fire sprinkler and standpipe riser(s) and fire alarm control panel(s).

Chapter 80

Revise all listed NFPA standards in IBC Chapter 35 and IFC Chapter 80 to include the latest edition available as of the effective date of the adoption of the 2015 IBC and IFC.