

CHAPTER 6

BUILDINGS AND BUILDING REGULATIONS

ARTICLE 5. FIRE CODE

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**6-5-1 ADOPTION OF FIRE CODE**

Three (3) Document copies, in accordance with 50 ILCS 220/2, and 65 ILCS 5/1-3-2, have been available for public use, inspection and examination for thirty (30) days and one copy for permanent public use in the office of the Village Clerk of the Village of Carol Stream, being marked and designated as “International Fire Code, 2003 Edition,” as published by The International Code Council, Inc., be and is hereby adopted as the Fire Code of the Village of Carol Stream, State of Illinois, for the control of buildings and structures as therein provided; and each and all regulations, provisions, penalties, conditions and terms of said International Fire Code, 2003 Edition, are hereby adopted and made a part hereof as if fully set out in this article, with additions, insertions, deletions and changes, if any, prescribed in sections 6-4-2 through 6-4-51 of this article.

**6-5-2 AMENDMENTS TO CHAPTER 1**

**CHAPTER 1  
ADMINISTRATION**

**SECTION 101.0  
GENERAL**

**101.1 Title.** These regulations shall be known as the Fire Code of ~~(NAME OF JURISDICTION)~~ **the Village of Carol Stream**, hereinafter referred to as “this code.”

**SECTION 102  
APPLICABILITY**

**[EB] 102.3 Change of use or occupancy.** The provisions of the *International Building Code* shall apply to all buildings undergoing a change of occupancy, **repairs, alterations and additions.**

**102.4 Application of building code.** The design and construction of new structures, **repairs, alterations and additions to existing structures** shall comply with the *International Building Code*.

~~Repairs, alterations and additions to existing structures shall comply with the *International Existing Building Code*.~~

**102.6 Referenced codes and standards.** The codes and standards referenced in this code shall be those that are listed in Chapter 45 and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply.

**102.6.1 Electrical Code.** All references to the *ICC Electrical Code* shall be construed to refer to the Electrical Code as amended and adopted by the Village of Carol Stream.

**102.6.2 Gas code.** All references to the *International Fuel Gas Code* shall be construed to refer to the Fuel Gas Code as amended and adopted by the Village of Carol Stream.

**102.6.3 Mechanical Code.** All references to the *International Mechanical Code* shall be construed to refer to the Mechanical Code as amended and adopted by the Village of Carol Stream.

**102.6.4 Plumbing Code.** All references to the *International Plumbing Code* shall be construed to refer to the Plumbing Code as amended and adopted by the Village of Carol Stream.

**102.6.5 Property Maintenance Code.** All references to the *International Property Maintenance Code* shall be construed to refer to the Property Maintenance Code as amended and adopted by the Village of Carol Stream.

**102.6.6 Energy Conservation Code.** All references to the *International Energy Conservation Code* shall be construed to refer to the Energy Conservation Code as amended and adopted by the Village of Carol Stream.

**102.6.7 Residential Code.** All references to the *International Residential Code* shall be construed to refer to the Residential Code as amended and adopted by the Village of Carol Stream.

**102.6.8 Building Code.** All references to the *International Building Code* shall be construed to refer to the Building Code as amended and adopted by the Village of Carol Stream.

### SECTION 103 DEPARTMENT OF FIRE PREVENTION

**103.1 General.** The department of fire prevention is established within the jurisdiction under the direction of the fire code official. The function of the department shall be the implementation, administration and enforcement of the provisions of this code. The President and Board of Trustees of the Village of Carol Stream are hereby authorized to enter into contracts or agreements with the Fire Protection District for the various functions of the Fire Prevention Bureau.

### SECTION 104.0 GENERAL AUTHORITY AND RESPONSIBILITIES

**104.1.1 Mutual aid agreements.** The President and Board of Trustees of the Village of Carol Stream are hereby authorized to enter into contracts or agreements with other municipalities and Fire Protection Districts for mutual aid. Such contracts shall include the furnishing of equipment, material and manpower, from and to such other municipalities and Fire Protection Districts, necessary for the operation of fire stations and the prevention and extinguishment of fires.

## SECTION 105.0 PERMITS

**105.1.2 Types of permits.** There shall be two types of permits as follows:

1. Operational Permit. An operational permit allows the applicant to conduct an operation or a business for which a permit is required by Section 105.6 for either:
  - 1.1 A prescribed period.
  - 1.2 Until renewed or revoked
2. Construction permit. A construction permit allows the applicant to install or modify systems and equipment for which a permit is required by Section 105.7.

**105.6 Required operational permits.** The fire code official is authorized to issue operational permits for the operation set forth in use and handling of any quantity of explosive material, fireworks, or pyrotechnic special effects within the scope of Chapter 33. Sections 105.6.1 through 105.6.46 shall be deleted in their entirety.

**105.7.13 Battery systems.** A construction permit is required to install stationary lead-acid battery systems having a liquid capacity of more than 50 gallons (189L).

**105.7.14 Floor finishing.** A construction permit is required for floor finishing or surfacing operations exceeding 350 square feet (33m<sup>2</sup>) using Class I or Class II liquids.

## SECTION 108 BOARD OF APPEALS

**108.1 Board of appeals established.** In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals consisting of members who are qualified by experience and training to pass on matters pertaining to this code and who are not employees of the jurisdiction. ~~The board of appeals shall be appointed by the governing body and shall hold office at its pleasure.~~ The fire code official shall be an ex officio member of said board but shall have no vote on any matter before the board. **The Board of Appeals shall consist of the President and Board of Trustees of the Village of Carol Stream. The President shall serve as Chairman and the Village Clerk shall serve as Secretary.** The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.

**108.4 Jurisdiction.** The board of appeals shall have no jurisdiction to hear an appeal when the facts and issues raised in the application for appeal are the subject of a quasi-criminal complaint brought in the name of the Village charging a violation of the Code of Ordinances of the Village. The filing of such a complaint shall constitute a determination that a decision of the building official, refusing to grant a modification to the provisions of this code, is correct. Any appeal

pending at the time of filing of such a complaint shall be dismissed for want of jurisdiction. (Am. Ord. 2005-05-22 passed 5-2-2005)

### SECTION 109 VIOLATIONS

**109.3 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair or do work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under provisions of this code, shall be guilty of a (~~SPECIFY OFFENSE~~) **misdemeanor**, punishable by a fine of not **less than \$75.00 dollars or more than (AMOUNT) \$750.00** dollars or by imprisonment not exceeding (~~NUMBER OF DAYS~~) **180** days, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offence.

### SECTION 111 STOP WORK ORDER

**111.4 Failure to comply.** Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than (~~AMOUNT~~) **\$75.00** dollars or more than (~~AMOUNT~~) **\$750.00** dollars.

## 6-5-3 AMENDMENTS TO CHAPTER 3

### CHAPTER 3 GENERAL PRECAUTIONS AGAINST FIRE

#### SECTION 311 VACANT PREMISES

**311.1 General.** Temporarily unoccupied buildings, structures, premises or portions thereof, including tenant spaces, shall be safeguarded and maintained in accordance with this section. **Fire protection systems required by this code or the *Building Code as amended and adopted by the Village of Carol Stream* shall be installed, repaired, operated, tested and maintained in accordance with this code.**

## 6-5-4 AMENDMENTS TO CHAPTER 5

### CHAPTER 5 FIRE SERVICE FEATURES

#### SECTION 505 PREMISES IDENTIFICATION

**501.1 Premises identification.** New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position on the building that is plainly legible and visible from the street or road fronting the property. **Approved address numbers, building numbers or approved building identification shall also be displayed on the rear doors of all multi-tenant buildings.**

These numbers shall contrast with their background. Address numbers shall be Arabic numerals ~~or alphabet letters~~. Numbers shall be a minimum of 4 6 inches (101.6 152 mm) in height and stroke of minimum 0.5 inch (12.7 mm). (Am. Ord. 2006-02-05 passed 2-06-2006)

## 6-5-5 AMENDMENTS TO CHAPTER 9

### CHAPTER 9 FIRE PROTECTION SYSTEMS

#### SECTION 902 DEFINITIONS

**TIRES, BULK STORAGE OF.** Storage of tires where the area available for storage exceeds 20,000 cubic feet (566 M<sup>3</sup>).

#### SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

**903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided for Group A-1 occupancies, ~~where one of the following conditions exists:~~

- ~~1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).~~
- ~~2. The fire area has an occupant load of 300 or more.~~
- ~~3. The fire area is located on a floor other than the level of exit discharge.~~
- ~~4. The fire area contains a multi-theater complex.~~

**903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for Group A-2 occupancies, ~~where one of the following conditions exists:~~

- ~~1. The fire area exceeds 5,000 square feet (465 m<sup>2</sup>).~~
- ~~2. The fire area has an occupant load of 300 or more.~~
- ~~3. The fire area is located on a floor other than the level of exit discharge.~~

**903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided for Group A-3 occupancies, ~~where one of the following conditions exists:~~

- ~~1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).~~
- ~~2. The fire area has an occupant load of 300 or more.~~
- ~~3. The fire area is located on a floor other than the level of exit discharge.~~

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level of exit discharge of the main entrance and exit.

**903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided for Group A-4 occupancies, where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

**Exception:** Areas used exclusively as participant sports areas where the main floor area is located at the same level of exit discharge of the main entrance and exit.

**903.2.1.5 Group A-5.** An automatic sprinkler system shall be provided in concession stands, retail areas, press boxes, and other accessory areas, in excess of 1000 square feet (93 m<sup>2</sup>).

**903.2.2 Group E.** An automatic sprinkler system shall be provided for Group E occupancies as follows.

1. Throughout all Group E fire areas greater than 20,000 square feet (1858 m<sup>2</sup>) in area.
2. Throughout every portion of educational buildings below the level of exit discharge.

**Exception:** An automatic sprinkler system is not required in any fire area or area below the level of exit discharge where every classroom throughout the building has at least one exterior exit door at ground level.

**903.2.3 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy, where one of the following conditions exists:

1. Where a Group F-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. Where a Group F-1 fire area is located more than three stories above grade.
3. Where the combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).

**903.2.3.1 Woodworking operations.** An automatic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain woodworking operations in excess of 2,500 square feet (232 m<sup>2</sup>) in area which generate finely divided combustible waste or which use finely divided combustible materials.

**903.2.6 Group M.** An automatic sprinkler system shall be installed throughout buildings where the fire area containing a Group M occupancy where one of the following conditions exists:

1. Where a Group M fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. Where a Group M fire area is located more than three stories above grade; or
3. Where the combined fire area on all Group M fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).

**903.2.8 Group S-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy. ~~where one of the following conditions exists:~~

- ~~1. Where a Group S-1 fire area exceeds 12,000 square feet (1115 m<sup>2</sup>)~~
- ~~2. Where a Group S-1 fire area is located more than three stories above grade; or~~
- ~~3. Where the combined fire area on all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m<sup>2</sup>).~~

**903.2.8.1 Repair Garages.** An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with the *International Building Code*. as follows:

- ~~1. Buildings two or more stories in height, including basements, with a fire area containing a repair garage exceeding 10,000 square feet (929 m<sup>2</sup>).~~
- ~~2. One-story buildings with a fire area containing a repair garage exceeding 12,000 square feet (1115 m<sup>2</sup>)~~
- ~~3. Buildings with a repair garage servicing vehicles parked in the basement.~~

**903.2.8.2 Bulk storage of tires.** Buildings and structures ~~where the area for the storage of tires exceeds 20,000 cubic feet (566 m<sup>3</sup>)~~ shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

**903.2.9.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for storage of commercial trucks or buses. ~~where the fire area exceeds 5,000 square feet (464 m<sup>2</sup>)~~

**903.2.10 All occupancies except Groups R-3 and U.** An automatic sprinkler system shall be installed in **all Group A, Group B, Group E, Group F, Group H, Group I, Group M, Group R, Group S and Group U occupancies and** the locations set forth in Sections 903.2.10.1 through 903.2.10.1.3.

**Exception:** Group R-3 **as applicable in Section 101.2** and Group U **less than 500 square feet (44.6 m<sup>2</sup>) in area.**

**903.2.10.1 Stories and basements without openings.** An automatic sprinkler system shall be installed throughout every story or basement of all buildings. ~~where the floor area exceeds 1,500 square feet (139.4 m<sup>2</sup>) and where there is not provided at least one of the following types of exterior wall openings:~~

- ~~1. Openings below grade that lead directly to ground level by an exterior stairway complying with Section 1009 or an outside ramp complying with Section 1010. Openings shall be located in each 50 linear feet (15 240 mm), or fraction thereof, of exterior wall in the story on at least one side.~~

2. ~~Openings entirely above the adjoining ground level totaling at least 20 square feet (1.86 m<sup>2</sup>) in each linear foot (15-240 mm), or fraction thereof, of exterior walls in the story on at least one side.~~

**903.3.2 Quick-response and residential sprinklers.** Where automatic sprinkler systems are required by this code, quick-response or residential automatic sprinklers shall be installed in the following areas in accordance with Section 903.3.1 and their listings:

1. Throughout all spaces within a smoke compartment containing patient sleeping rooms in Group I-2 in accordance with the *International Building Code*.
2. Dwelling units, guestrooms and sleeping rooms in Group R and I-1 occupancies.
3. ~~Light hazard occupancies as defined in NFPA 13.~~

**903.3.5.1 Domestic services.** Where the domestic service provides the water supply for the automatic sprinkler system, the supply shall be installed in accordance with this section.

**Exception:** Domestic water services shall be separate from the water supply for automatic sprinkler systems unless approved by the fire code official.

**903.3.5.1.1 Limited area sprinkler systems.** **Limited area sprinkler systems are only allowed with approval of the fire code official.** Limited area sprinkler systems serving fewer than 20 sprinklers on any single connection are permitted to be connected to the domestic service where a wet automatic standpipe is not available. Limited area sprinkler system connected to domestic water supplies shall comply with each of the following requirements:

1. Valves shall not be installed between the domestic water riser control valve and the sprinklers.

**Exception:** An approved indicating control valve supervised in the open position in accordance with Section 903.4.

2. The domestic service shall be capable of supplying the simultaneous domestic demand and the sprinkler demand required to be hydraulically calculated by NFPA 13, NFPA 13R or NFPA 13D.

**903.4 Sprinkler system monitoring and alarms.** **Limited area sprinkler systems are only allowed with approval of the fire code official.** 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.

**Exceptions:**

1. Automatic sprinkler systems protecting one- and two-family dwellings.
2. ~~Limited area systems serving fewer than 20 sprinklers.~~
3. ~~Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic and automatic sprinkler systems and a separate shutoff valve for the automatic sprinkler system is not provided.~~

4. Jockey pump control valves that are sealed or locked in the open position.
5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position.
6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
7. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.

**903.4.1 Signals.** Alarm, supervisory and trouble signals shall be distinctly different and automatically transmitted to an approved central station, **the remote supervising station of the jurisdiction** or proprietary supervising station as defined in NFPA 72 or, when approved by the building official, shall sound an audible signal at a constantly attended location. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**Exceptions:**

1. Underground key or hub valves in roadway boxes provided by the municipality or public utility are not required to be monitored.
2. Backflow prevention device test valves, located in limited area sprinkler system supply piping, shall be located in the open position. In occupancies required to be equipped with a fire alarm system, the backflow preventer valves shall be electrically supervised by a tamper switch installed in accordance with NFPA 72 and separately annunciated.

**SECTION 907  
FIRE ALARM AND DETECTION SYSTEMS**

**907.2.1 Group A.** A manual fire alarm system shall be installed in accordance with NFPA 72 in Group A occupancies ~~having an occupant load of 300 or more.~~ Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system and the alarm notification appliances will activate upon sprinkler water flow.

**907.12 Duct smoke detectors.** Duct smoke detectors shall **not be connected to the fire protective signaling system.** ~~be connected to the building's fire alarm control panel when a fire alarm system is provided.~~ Activation of a duct smoke detector shall initiate a visible and audible supervisory signal **in the affected space.** ~~at a constantly attended location. Duct smoke detectors shall not be used as a substitute for required open area detection.~~ (Am. Ord. 2006-02-05 passed 2-06-2006)-

**Exceptions:**

- ~~1. The supervisory signal at a constantly attended location is not required where duct smoke detectors activate the building's alarm notification appliances.~~
- ~~2. In occupancies not required to be equipped with a fire alarm system, actuation of a smoke detector shall activate a visible and audible signal in an approved~~

~~location. Smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble.~~

**907.15 Monitoring.** Where required by this chapter or the *International Fire Code*, ~~an approved supervising station~~ all fire alarm systems shall be connected to the approved remote supervising station system of the jurisdiction in accordance with NFPA 72 ~~shall monitor fire alarm systems.~~ (Am. Ord. 2006-02-05 passed 2-06-2006)-

~~**Exceptions:** Supervisory service is not required for:~~

- ~~1. Single and multiple station smoke alarms required by Section 907.2.10.~~
- ~~2. Smoke detectors in Group I-3 occupancies.~~
- ~~3. Automatic sprinkler systems in one and two family dwellings.~~

**[F] 907.15.1 New and updated fire alarm systems.** Where operationally feasible, all new fire alarm systems, and those that are required to upgrade the fire alarm system in accordance with this code and the *International Fire Code*, shall transmit the required signals directly to the approved remote supervising station of the jurisdiction via a wireless transmitter in accordance with NFPA 72. Only equipment certified and approved by the remote supervising receiving station may be installed. The agent designated by the remote supervising receiving station shall be the only authorized installer of the approved radio transmitters. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**[F] 907.15.1.1 Existing systems.** Existing fire alarm systems may be changed to wireless transmission systems upon the owner's request. Such conversions to wireless transmission systems shall comply with [F] 907.15.1. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**[F] 907.20 Zone disconnect.** All fire alarm panels shall be capable of zone disconnects at the control panel. Disconnection of a zone shall cause the fire alarm system to transmit a "trouble" signal and still allow for transmission of a "Full Alarm Signal". (Am. Ord. 2006-02-05 passed 2-06-2006)-

**[F] 907.21 Major renovations.** At such time as the fire alarm system undergoes major renovations, occupancies shall convert their fire alarm system to conform to the *International Fire Code*. "Major renovation" shall be defined as the rebuilding or replacement of the main fire alarm panel. (Am. Ord. 2006-02-05 passed 2-06-2006)-

## SECTION 910 SMOKE AND HEAT VENTS

**910.1 General.** Where required by this code or otherwise installed, smoke and heat vents or mechanical smoke exhaust system and draft curtains shall conform to the requirements of this section. Buildings or portions thereof in all occupancies of Groups A, B, E, F, I, M, and S having more than 30,000 square feet (2787 m<sup>2</sup>) in floor area shall be provided with a mechanical smoke exhaust system.

~~**Exception:** Frozen food warehouses used solely for storage of Class I and Class II commodities where protected by an automatic sprinkler system.~~

**910.2 Where required.** Approved smoke and heat vents shall be installed in the roofs of one-story buildings or portions thereof occupied for the uses set forth in Sections 910.2.1 through 910.2.4.

**910.2.1 Groups F-1 and S-1.** Buildings and portions thereof used as a Group F-1 or S-1 occupancy having ~~more~~ **less** than 50,000 square feet (4645 m<sup>2</sup>) **30,000 square feet (2787 m<sup>2</sup>)** in ~~undivided area~~ **floor area**.

**Exception:** Group S-1 aircraft repair hangers.

**910.2.2 Group H.** Buildings or portions thereof used as a group H occupancy **shall be provided with a mechanical smoke exhaust system.** ~~as follows:~~

- ~~1. In occupancies classified as Group H-2 or H-3, any of which are over 15,000 square feet (1394m<sup>2</sup>) in single floor area.~~

~~**Exception:** Buildings of noncombustible construction containing only noncombustible materials.~~

- ~~2. In areas of buildings in Group H used for storing Class 2, 3, and 4 liquid or solid oxidizers, Class 1 and unclassified detonable organic peroxides, Class 3 and 4 unstable (reactive) materials, or Class 2 or 3 water reactive materials as required for a high hazard commodity classification.~~

~~**Exception:** Buildings of noncombustible construction containing only noncombustible materials.~~

## SECTION 912 FIRE DEPARTMENT CONNECTIONS

**912.7 Auxiliary fire department connections.** Fire suppression systems with a designed demand flow requirement of 1000 gallons per minute or more shall be equipped with an auxiliary fire department connection. The auxiliary fire department connection shall be in a location approved by the fire code official or designee. The auxiliary fire department connection shall be marked with a wall-mounted sign. The sign shall read "Auxiliary FDC" in letters a minimum of 4 inches (101.6 mm) in height of a contrasting color to the background itself. (Am. Ord. 2006-02-05 passed 2-06-2006)-

## SECTION 913 FIRE PUMPS

**913.6 Fire resistance rating of fire pump room.** The fire pump room shall be separated from the remainder of the structure by wall assemblies having not less than 2-hour fire-resistance rating when tested in accordance with ASTM E 119. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**913.7 Fire pump room entrance door.** The fire pump room shall be provided with an exterior entrance door. The exterior of the door shall be marked "Fire Pump Room". (Am. Ord. 2006-02-05 passed 2-06-2006)-

**913.8 Fire pump room emergency lighting.** The fire pump room shall be provided with emergency lighting in compliance with this code. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**SECTION 914**  
**INSIDE HOSE CONNECTIONS FOR FIREFIGHTING:**

**914.1 General.** In Groups F, S, H, and M over 40,000 square feet in floor area, a system of inside hose connections for firefighting shall be installed. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**914.2 Valve and hose connections:** Valves shall be 2.5 inch standpipe type equipped with 2.5 inch external threads. A 2.5 inch by 1.5 inch reducer shall be provided. All hose threads shall be NST. Valves shall be mounted a minimum of 36 inches and a maximum of 48 inches above the floor. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**914.3 Piping and design.** All piping supplying water to the hose connections shall be a minimum size of 2.5 inch diameter. In multiple riser systems, water supply shall be taken from the adjacent automatic sprinkler system or from an independent riser. The system shall be installed in accordance with NFPA 13 and 14, listed in Chapter 35 of this code. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**914.4 Location and spacing of inside hose connections for firefighting.** A hose connection shall be installed inside the building within 5 feet of each exterior door. Additional hose connections shall be installed as required by the fire code official or designee. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**Exception:** Inside hose connections shall not be required in office areas, at exits that enter an office area, or at exterior doors that do not allow entry into the general building areas.

**914.5 Identification.** The vertical pipe drop from the roof to the valve shall be painted red. If the valve is wall-mounted a 12-inch by 12-inch red square shall be painted 15 feet above the floor on the wall. If the valve is mounted on a column or other structural member, the location shall be clearly marked using a 12-inch by 12-inch sign or by painting a 12-inch red band around the member. Each door that has a hose connection mounted adjacent to it shall be marked with the letters "HC" on the upper left hand corner of the door. The letters shall be a minimum of 4 inches (101.6 mm) in height of a contrasting color to the background itself. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**SECTION 915**  
**CARBON MONOXIDE DETECTORS**

**[B] 915.1 Reference.** Carbon monoxide detectors shall be provided in accordance with Section 912 of the Building Code of the Village of Carol Stream. (Am. Ord. 2006-12-75 passed 12-18-2006)

**6-5-6 AMENDMENTS TO CHAPTER 10**

**CHAPTER 10**  
**MEANS OF EGRESS**

**(B) SECTION 1007**  
**ACCESSIBLE MEANS OF EGRESS**

**1007.1 Accessible means of egress required.** Accessible means of egress shall comply with this section **and the Illinois Accessibility Code, current version**. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by Section 1014.1 or 1018.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

**Exceptions:**

1. ~~Accessible means of egress are not required in alterations to existing buildings.~~
2. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1007.3 or 1007.4.
3. In assembly spaces with sloped floors, one accessible means of egress is required from a space where a common path of travel of the accessible route for access to the wheelchair spaces meets the requirements of Section 1024.9.

**SECTION 1008  
DOORS, GATES AND TURNSTILES**

**1008.1.2 Door swing.** Egress doors shall be side-hinged swinging.

**Exceptions:**

1. Private garages, office areas, factory and storage areas with an occupant load of 10 or less.
2. Group I-3 occupancies used as a place of detention.
3. Doors within or serving a single dwelling unit in Groups R-2 and R-3 as applicable in Section 101.2.
4. In other than Group H occupancies, revolving doors complying with Section 1008.1.3.1.
5. In other than Group H occupancies, horizontal sliding doors complying with Section 1008.1.3.3 are permitted in a means of egress.
6. Power-actuated doors in accordance with Section 1008.1.3.1.

Doors shall swing in the direction of egress travel ~~where serving an occupant load of 50 or more persons or a Group H occupancy.~~

The opening force for interior side-swinging doors without closures shall not exceed a 5-pound (22 N) force. For other side-swinging, sliding and folding doors, the door latch shall release when subjected to a 15-pound (67 N) force. The door shall be set in motion when subjected to a 30-pound (133 N) force. The door shall swing to a full-open position when subjected to a 15-pound (67 N) force. Forces shall be applied to the latch side.

**1008.1.8.3 Locks and latches.** Locks and latches shall be permitted to prevent operation of doors where any of the following exists:

1. Places of detention or restraint.
2. ~~In buildings in occupancy Group A having an occupant load of 300 or less, Groups B, F, M and S, and in churches, the main exterior or doors are permitted to be equipped with key-operated locking devices from the egress side provided:~~
  - 2.1. ~~The locking device is readily distinguishable as locked,~~
  - 2.2. ~~A readily visible durable sign is posted on the egress side on or adjacent to the door stating: **THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.** The sign shall be in letters 1 inch (25 mm) high on a contrasting background.~~
  - 2.3. The use of the key-operated locking device is revokable by the fire code official for due cause.
3. Where egress doors are used in pairs, approved automatic flush bolts shall be permitted to be used, provided that the door leaf having the automatic flush bolts has no doorknob or surface-mounted hardware.
4. Doors form individual dwelling or sleeping units of Group R occupancies having an occupant load of 10 or less are permitted to be equipped with a night latch, dead bolt or security chain, provided such devices are openable from the inside without the use of a key or tool.

### **(B) SECTION 1009 STAIRWAYS AND HANDRAILS**

**1009.3 Stair treads and risers.** Stair riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum. Stair tread depths shall be 11 inches (279 mm) minimum. The riser height shall be measured vertically between the leading edges of adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 0.375 inch (9.5 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at right angles to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 0.375 inch (9.5 mm). Winder treads shall have a minimum tread depth of 11 inches (279 mm) measured at a right angle to the tread's leading edge at a point 12 inches (305 mm) from the side where the tread is narrower and a minimum tread depth of 10 inches (254 mm). The greatest winder tread depth at the 12-inch (305 mm) walk line within any flight of stairs shall not exceed the smallest by more than 0.375 inch (9.5 mm).

**Exceptions:**

1. Circular stairways in accordance with Section 1009.7.
2. Winders in accordance with Section 1009.8.
3. Spiral stairways in accordance with Section 1009.9.

4. Aisle stairs in assembly seating areas where the stair pitch or slope is set, for sightline reasons, by the slope of the adjacent seating area in accordance with Section 1024.11.2.
5. In occupancies in Group R-3, as applicable in Section 1001.1, within dwelling units in occupancies in Group R-2, as applicable in Section 1001.1, and in occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 1001.1, the maximum riser height shall be 7.75 inches (197 mm) and the minimum tread depth shall be 10 inches (254 mm), and the minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 11 inches (279 mm).
6. ~~See the *International Existing Building Code* for the replacement of existing stairways.~~

### [B] SECTION 1011 EXIT SIGNS

**1011.2 Illumination.** Exit signs shall be internally ~~or externally~~ illuminated.

~~**Exception:** Tactile signs required by Section 1011.3 need not be provided with illumination.~~

### [B] SECTION 1013 EXIT ACCESS

**1013.3 Common path of egress travel.** In occupancies other than Groups H-1, H-2 and H-3, the common path of egress travel shall not exceed 75 feet (22 860 mm). In occupancies in Groups H-1, H-2 and H-3, the common path of egress travel shall not exceed 25 feet (7620 mm).

**Exceptions:**

1. The length of common path of egress travel in an occupancy in Groups B, F and S shall not be more than 100 feet (30 480 mm), provided that the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

**Exception:**

The length of common path of egress travel for common truck docks which are provided and separated from the rest of the occupancies by 1-hour fire-resistance rated assemblies shall not be less than 50 feet (15 240 mm).

2. Where a tenant space in an occupancy in Groups B, S and U has an occupant load of not more than 30, the length of a common path of egress travel shall not be more than 100 feet (30 480 mm).

- The length of common path of egress travel in occupancies in Group I-3 shall not be more than 100 feet (30 480 mm).

**[B] SECTION 1014  
EXIT AND EXIT ACCESS DOORWAYS**

**1014.1 Exit or exit access doorways required.** Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:

- The occupant load of the space exceeds the values in Table 1014.1.
- The common path of egress travel exceeds the limitations of section 1013.3.
- Where required by Sections 1014.3, 1014.4, and 1014.5.
- Where shared truck dock facilities are provided in Groups B, S, and F in multiple tenant buildings.

**Exception:** Group I-2 occupancies shall comply with Section 1013.2.2.

**TABLE 1014.1  
SPACES WITH ONE MEANS OF EGRESS**

OCCUPANCY	MAXIMUM OCCUPANT LOAD
A, <del>B, E, F</del> , M, U	50
<del>B, E, F</del>	10
H-1, H-2, H-3	3
H-4, H-5, I-1, 1-3, 1-4, R	10
S	<del>30</del> 10-

**[B] SECTION 1015  
EXIT ACCESS TRAVEL DISTANCE**

**1015.1 Travel distance limitations.** Exits shall be so located on each story such that the maximum length of exit access travel, measured from the most remote point within a story to the entrance to an exit along the natural and unobstructed path of egress travel, shall not exceed the distances given in Table 1015.1 unless required elsewhere in this code.

**TABLE 1016.1  
CORRIDOR FIRE-RESISTANCE RATING**

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (hours)	
		Without sprinkler system	With Sprinkler system <sup>c</sup>
H-1, H-2, H-3	All	Not permitted	1
H-4, H-5	Greater than 30	Not permitted	1
A, B, E, F, M, S, U	Greater than 30	1	<del>0</del> 1 <sup>d</sup>

R	Greater than 10	1	<del>0.5</del> 1 <sup>d</sup>
I-2 <sup>a</sup> , I-4	all	Not permitted	0 <sup>d</sup>
I-1, 1-3	all	Not permitted	1 <sup>b, d</sup>

- a. For requirements for occupancies in Group I-2, see Section 407.3 of the International Building Code.
- b. For a reduction in the fire-resistance rating for occupancies in Group I-3, see Section 408.7 of the International Building Code.
- c. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 where allowed.
- d. No reductions in fire-resistance allowed.

**[B] SECTION 1018  
NUMBER OF EXITS AND CONTINUITY**

**1018.2 Buildings with one exit.** Only one exit shall be required in buildings as described below:

1. Buildings described in Table 1018.2, provided that the building has not more than one level below the first story above the grade plane.
2. Buildings of Group R-3 occupancy.
3. Single-level buildings with an occupied space **story** at the level of exit discharge provided that the story or space complies with Section 1014.1 as a **space story** with one means of egress.

**6-5-7 AMENDMENTS TO CHAPTER 27**

**CHAPTER 27  
HAZARDOUS MATERIALS — GENERAL PROVISIONS**

**SECTION 2703  
GENERAL REQUIREMENTS**

**2703.4 Material Safety Data Sheets.** Material Safety Data Sheets (MSDS) shall be readily available on the premises for hazardous materials regulated by this chapter. When a hazardous substance is developed in a laboratory, available information shall be documented. **When requested, copies of Material Safety Data Sheets (MSDS) shall be submitted to the fire code official. (Am. Ord. 2006-02-05 passed 2-06-2006)-**

**SECTION 2704  
STORAGE**

**2704.1.1 Hazardous material information safes.** Occupancies identified by the fire code official shall install one or more repositories (hazardous material information safes) approved by the fire code official. This repository shall contain all information required by Sections 2701.5.1 and 2701.5.2 of this code. **(Am. Ord. 2006-02-05 passed 2-06-2006)-**

**2704.1.2 Location.** The required repository (hazardous material information safe) shall be mounted in a location approved by the fire code official. **(Am. Ord. 2006-02-05 passed 2-06-2006)-**

**2704.1.3 Update and notification.** The owner or operator of the facility shall update the appropriate documents located within the repository container on an annual basis, when there is a change to operations that effect the contained information, or more frequently when required by the fire code official. All updated material shall be sent to the fire code official, including an updated copy of all information required by Section 2705.5.1 and 2705.5.2 of this code. Upon approval by the fire code official, the updated documents shall be placed in the repository containers. (Am. Ord. 2006-02-05 passed 2-06-2006)-

## 6-5-8 AMENDMENTS TO CHAPTER 33

### CHAPTER 33 EXPLOSIVES AND FIREWORKS

#### SECTION 3302 DEFINITIONS

**FIREWORKS.** The term "fireworks" shall include any combustible or explosive composition, and substance and combination of substances and articles, prepared for the purpose of producing a visible or audible effect by combustion, explosion, deflagration or detonation. Fireworks shall include blank cartridges, toy pistols, toy cannons, toy canes, and toy guns in which explosives are utilized; balloons requiring fire underneath to propel the balloon; firecrackers, torpedoes, skyrockets, roman candles, sparklers, and other devices of similar construction; any device containing any explosive or flammable compound; and any tablets and other devices containing any explosive substance. The term "fireworks" shall not include automobile flares, paper caps containing not more than an average of 0.25 grain of explosive compound per cap, toy pistols, toy canes, toy guns, and other devices utilizing such caps. The sale and utilization of the types of explosive devices listed herein which are not considered fireworks shall be permitted at all times. Any composition or device for the purpose of producing a visible or an audible effect for entertainment purposes by combustion, deflagration or detonation that meets the definition of 1.4G fireworks or 1.3G fireworks as set forth herein. (Am. Ord. 2006-02-05 passed 2-06-2006)-

~~**Fireworks, 1.4G.** (Formerly known as Class C, Common Fireworks.) Small fireworks devices containing restricted amounts of pyrotechnic composition designed primarily to produce visible or audible effects by combustion. Such 1.4G fireworks which comply with the construction, chemical composition and labeling regulations of the DOT for Fireworks, UN 0336, and the U.S. Consumer Product Safety Commission as set forth in CPSC 16 CFR: Parts 1500 and 1507, are not explosive materials for the purpose of this code. (Am. Ord. 2006-02-05 passed 2-06-2006)-~~

~~**Fireworks, 1.3G.** (Formerly Class B, Special Fireworks.) Large fireworks devices, which are explosive materials, intended for use in fireworks displays and designed to produce audible or visible effects by combustion, deflagration or detonation. Such 1.3G fireworks include, but are not limited to, firecrackers containing more than 130 milligrams (2 grains) of explosive composition, aerial shells containing more than 40 grams of pyrotechnic composition, and other display pieces which exceed the limits for classification as 1.4G fireworks. Such 1.3G fireworks, are also described as Fireworks, UN0335 by the DOT. (Am. Ord. 2006-02-05 passed 2-06-2006)-~~

#### SECTION 3308 FIREWORKS DISPLAY

**3308.11 Retail display, and sale, and demonstration.** ~~Fireworks displayed for retail sale shall not be made readily accessible to the public. A minimum of one pressurized water portable fire extinguisher complying with section 906 shall be located not more than 15 feet (4752 mm) and not less than 10 feet (3048 mm) from the hazard. "No Smoking" signs complying with Section 310 shall be conspicuously posted in areas where fireworks are stored or displayed for retail sale.~~ A person shall not manufacture, store, offer or expose for sale, sell at retail or demonstrate any fireworks except for the approved supervised display of fireworks. (Am. Ord. 2006-02-05 passed 2-06-2006)-

**3308.12 Seizure of fireworks.** The code official shall seize, take, remove or cause to be removed, at the expense of the owner, all fireworks offered or exposed for display or sale, stored or held in violation of this chapter. (Am. Ord. 2006-02-05 passed 2-06-2006)-

## 6-5-9 AMENDMENTS TO APPENDIX A

### APPENDIX A BOARD OF APPEALS

#### SECTION A101 GENERAL

**A101.2 Membership.** ~~The membership of the board shall consist of five voting members having the qualifications established by this section. Members shall be nominated by the fire code official or the chief administrative officer of the jurisdiction, subject to confirmation by a majority vote of the governing body. Members shall serve without remuneration or compensation, and shall be removed from office prior to the end of their appointed terms only for cause.~~ the President and Board of Trustees of the Village of Carol Stream. The President shall serve as Chairman and the Village Clerk shall serve as Secretary. Fees for appeal hearings shall be in accordance with the Schedule of Fees contained in Chapter 6, Article 13 of the Village Code.

**A101.2.1 Design professional.** ~~One member shall be a practicing design professional registered in the practice of engineering or architecture in the state in which the board is established.~~

**A101.2.2 Fire protection engineering professional.** ~~One member shall be a qualified engineer, technologist, technician, or safety professional trained in fire protection engineering, fire science, or fire technology. Qualified representatives in this category shall include fire protection contractors and certified technicians engaged in fire protection system design.~~

**A101.2.3 Industrial safety professional.** ~~One member shall be a registered industrial or chemical engineer, certified hygienist, certified safety professional, certified hazardous materials manager, or comparably qualified specialist experienced in chemical process safety or industrial safety.~~

**A101.2.4 General contractor.** ~~One member shall be a contractor regularly engaged in the construction, alteration maintenance, repair, or remodeling of buildings or building services and systems regulated by the code.~~

~~**A101.2.5 General industry or business representative.** One member shall be a representative of business or industry not represented by a member from one of the other categories of board members described above.~~

~~**A101.3 Terms of office.** Members shall be appointed for terms of four years. No member shall be reappointed to serve more than two consecutive full terms.~~

~~**A101.3.1 Initial appointments.** Of the members first appointed, two shall be appointed for a term of 1 year, two for a term of 2 years, one for a term of 3 years.~~

~~**A101.3.2 Vacancies.** Vacancies shall be filled for an unexpired term in the manner in which original appointments are required to be made. Members appointed to fill a vacancy in an unexpired term shall be eligible for reappointment to two full terms.~~

~~**A101.3.3 Removal from office.** Members shall be removed from office prior to the end of their terms only for cause. Continued absence of any member from regular meetings of the board shall, at the discretion of the applicable governing body, render any such member liable to immediate removal from office.~~

~~**A101.4 Quorum.** Three members of the board shall constitute a quorum. In varying the application of any provisions of this code or in modifying an order of the fire official, affirmative votes of the majority present, but not less than three affirmative votes shall be required.~~

~~**A101.5 Secretary of board.** The code official shall act as secretary of the board and shall keep a detailed record of all its proceedings, which shall set forth the reasons for its decisions, the vote of each member, the absence of a member, and any failure of a member to vote.~~

~~**A101.6 Legal counsel.** The jurisdiction shall furnish legal counsel to the board to provide members with general legal advice concerning matters before them for consideration. Members shall be represented by legal counsel at the jurisdiction's expense in all matters arising from service within the scope of their duties.~~

~~**A101.7 Meetings.** The board shall meet at regular intervals, to be determined by the chairman. In any event, the board shall meet within 10 days after notice of appeal has been received.~~

~~**A101.8 Conflict of interest.** Members with a material or financial interest in a matter before the board shall declare such interest and refrain from participating in discussions, deliberations, and voting on such matters.~~

~~**A101.9 Decisions.** Every decision shall be promptly filed in writing in the office of the code official and shall be open to public inspection. A certified copy shall be sent by mail or otherwise to the appellant, and a copy shall be kept publicly posted in the office of the code official for 2 weeks after filing.~~

~~**A101.10 Procedures.** The board shall be operated in accordance with the Administrative Procedures Act of the state in which it is established or shall establish rules and regulations for its own procedure not inconsistent with the provisions of this code and applicable state law.~~