CHAPTER 10 FIRE CODE

Sec. 3-10-1 Adoption of the International Fire Code.
That certain documents, three copies of which are on file in the office of the village clerk, being marked and designated as The International Fire Code/2006 published by the International Code Council be and are hereby provided; and each and all of the regulations, provisions, penalties, conditions and terms of said codes, are hereby referred to as adopted and made a part hereof as if fully set out in this article, and each and all regulations, provisions, penalties, conditions and terms of such code are hereby referred to, adopted and made part of this article as if fully set out in this article, with the additions, insertions, deletions and changes, if any, prescribed in section 3-10-2.

Sec.3-10-2. Amendments to the International Fire Code.
The following words, provisions, and paragraphs be added to the following designated sections of the code adopted in section 3-10-1. These provisions supersede the requirements of the indicated provisions of such code.

101.1 Insert The Village of Manhattan

109.3 See the Village of Manhattan fee schedule

111.4 See The Village of Manhattan fee schedule

That section 506.1 of the 2006 International Fire Code shall be deleted in its entirety and the following inserted in lieu thereof:

506.1 Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes a Knox Box brand key vault/rapid entry system, also known as a “Knox Box” shall be installed in accordance with the following requirements:

1. All Knox Boxes shall be installed on an exterior portion of a building or structure in locations approved by the code official. This will typically be at the front of the building and adjacent to the Sprinkler Control Room or fire department sprinkler connection.

2. The Knox Box shall be mounted at a height of between 60 and 72 inches above the floor or finished grade.

3. The Knox Box shall contain keys allowing access to all common entry doors to the building, the door to the automatic sprinkler fire suppression system control room, elevator controls, electrical rooms, mechanical rooms and the fire alarm panel servicing said building or structure.

4. The total number of Knox Boxes required for occupancy shall be determined by the Code Official.
5. The location of the Knox Boxes shall be indicated on the construction drawings.

That section 903.2 of the 2006 International Fire Code shall be deleted in its entirety and the following inserted in lieu thereof:

**AUTOMATIC SPRINKLER SYSTEMS**

[F] 903.2 Where required. Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in this section.

Exception:

1. Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic fire alarm system and are separated from the remainder of the building by fire barriers consisting of not less than 1-hour fire-resistance-rated walls and 2-hour fire-resistance-rated floor/ceiling assemblies.
2. Detached gazebos, temporary tents and ramadas for residential and public use.
3. Guardhouses that are less than 300 square feet in size used to control access to or within residential and/or commercial developments of combustible construction or 600 square feet or less that are of non-combustible construction.
4. Detached non-combustible canopies used exclusively for automotive, motor fuel dispensing stations or detached non-combustible carports or parking canopies.
5. Detached equipment or storage buildings for commercial use not exceeding 300 square feet 600 square feet if more that 20 feet from the principle commercial structure.
6. Factory built buildings utilized as temporary office buildings similar to real estate leasing offices and construction offices.

[F] 903.2.1 Group A. An automatic sprinkler system shall be provided throughout buildings and portions thereof used as Group A occupancies as provided in this section. For Group A-1, A-2, A-3 and A-4 occupancies, the automatic sprinkler system shall be provided throughout the floor area where the Group A-1, A-2, A-3 or A-4 occupancy is located, and in all floors between the Group A occupancy and the level of exit discharge. For Group A-5 occupancies, the automatic sprinkler system shall be provided in the spaces indicated in Section 903.2.1.5.

[F] 903.2.1.1 Group A-1. An automatic sprinkler system shall be provided throughout all Group A-1 occupancies.

[F] 903.2.1.2 Group A-2. An automatic sprinkler system shall be provided throughout all Group A-2 occupancies.
[F] 903.2.1.3 Group A-3. An automatic sprinkler system shall be provided throughout all Group A-3 occupancies. Exception: Areas used exclusively as participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit.

[F] 903.2.1.4 Group A-4. An automatic sprinkler system shall be provided throughout all Group A-4 occupancies. Exception: Areas used exclusively as participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit.

[F] 903.2.1.5 Group A-5. An automatic sprinkler system shall be provided for Group A-5 occupancies in the following areas: concession stands, retail areas, press boxes and other accessory use areas in excess of 1,000 square feet (93 m²).

[F] 903.2.2 Group E. An automatic sprinkler system shall be provided for throughout all Group E occupancies.

[F] 903.2.3 Group F-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy.

[F] 903.2.3.1 Woodworking operations. An automatic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas.

[F] 903.2.4 Group H. Automatic sprinkler systems shall be provided in high-hazard occupancies as required in Sections 903.2.4.1 through 903.2.4.3. [F] 903.2.4.1 General. An automatic sprinkler system shall be installed in Group H occupancies.

[F] 903.2.4.2 Group H-5. An automatic sprinkler system shall be installed throughout buildings containing Group H-5 occupancies. The design of the sprinkler system shall not be less than that required by this code for the occupancy hazard classifications in accordance with Table 903.2.4.2. Where the design area of the sprinkler system consists of a corridor protected by one row of sprinklers, the maximum number of sprinklers required to be calculated is 13.

[F] TABLE 903.2.4.2

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>OCCUPANCY HAZARD CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabrication areas</td>
<td>Ordinary Hazard Group 2</td>
</tr>
<tr>
<td>Service corridors</td>
<td>Ordinary Hazard Group 2</td>
</tr>
<tr>
<td>Storage rooms without dispensing</td>
<td>Ordinary Hazard Group 2</td>
</tr>
<tr>
<td>Storage rooms with dispensing</td>
<td>Extra Hazard Group 2</td>
</tr>
<tr>
<td>Corridors</td>
<td>Ordinary Hazard Group 2</td>
</tr>
</tbody>
</table>
903.2.4.3 Pyroxylin plastics. An automatic sprinkler system shall be provided in buildings, or portions thereof, where cellulose nitrate film or pyroxylin plastics are manufactured, stored or handled in quantities exceeding 100 pounds (45 kg).

903.2.5 Group I. An automatic sprinkler system shall be provided throughout buildings with a Group I fire area.
Exception: An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group I-1 facilities.

903.2.6 Group M. An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy.

903.2.7 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area regulated by this code or any Group R use including single family that is attached to any other use group.

903.2.8 Group S-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy.

903.2.8.1 Repair garages. An automatic sprinkler system shall be provided throughout all buildings used as repair garages.

903.2.9 Group S-2. An automatic sprinkler system shall be provided throughout buildings classified as enclosed parking garages in accordance with Section 406.4 or where located beneath other groups.

903.2.9.1 Commercial parking garages. An automatic sprinkler system shall be provided throughout buildings used for storage of commercial trucks or buses.

903.2.10 Rubbish and linen chutes. An automatic sprinkler system shall be installed at the top of rubbish and linen chutes and in their terminal rooms. Chutes extending through three or more floors shall have additional sprinkler heads installed within such chutes at alternate floors. Chute sprinklers shall be accessible for servicing.

903.2.11 During construction. Automatic sprinkler systems required during construction, alteration and demolition operations shall be provided in accordance with the International Fire Code.

903.2.12 Other hazards. Automatic sprinkler protection shall be provided for the hazards indicated in Sections 903.2.12.1 and 903.2.12.2.

903.2.12.1 Ducts conveying hazardous exhausts. Where required by the International Mechanical Code, automatic sprinklers shall be provided in ducts conveying hazardous exhaust, or flammable or combustible materials.
Exception: Ducts in which the largest cross-sectional diameter of the duct is less than 10 inches (254 mm).

[F] 903.2.12.2 Commercial cooking operations. An automatic sprinkler system shall be installed in commercial kitchen exhaust hood and duct system where an automatic sprinkler system is used to comply with Section 904.

[F] 903.2.13 Other required suppression systems. In addition to the requirements of Section 903.2, the provisions indicated in Table 903.2.13 also require the installation of a suppression system for certain buildings and areas.

[F] TABLE 903.2.13

ADDITIONAL REQUIRED SUPPRESSION SYSTEMS
SECTION SUBJECT
402.8 Covered malls
403.2, 403.3 High-rise buildings
404.3 Atriums
405.3 Underground structures
407.5 Group I-2
410.6 Stages
411.4 Special amusement buildings
412.2.5, 412.2.6 Aircraft hangars
415.6.2.4 Group H-2
416.4 Flammable finishes
417.4 Drying rooms
507 Unlimited area buildings
508.2 Incidental use areas
1025.6.2.3 Smoke-protected assembly seating
IFC Sprinkler system requirements as set forth in Section 903.2.13 of the International Fire Code

That section 903.2 of the 2006 International Fire Code shall be amended by inserting the following as Section 903.2.14:

[F] 903.2.14 Group B. An automatic sprinkler system shall be provided throughout buildings containing a Group B occupancy.