3-1-1: Adoption of Building 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 Building 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 3-1-2.

3-1-2: Amendments to Building Code.

The following words, provisions, and paragraphs shall be added to the following designated sections of the code adopted in section 3-1-1. These provisions supersede the requirements of the indicated provisions of such code.

101.1 Title, is revised by inserting the words "Village of Manhattan" in the blank.

101.1 Appointment, the village Building Commissioner shall serve as the building official.

101.4.4 Plumbing, Change the first line to reference the Illinois Plumbing Code.

105.2 Exceptions, delete exceptions 1, 2 and 6.

112.1 Add the following: The Village Board shall serve as the Board of Appeals.

112.3 Delete section.

406.1.4 Subsection 1 shall be amended to read:
1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 5/8-inch Type X gypsum board or equivalent applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than a 5/8-inch Type X gypsum board or equivalent. Door openings between a private garage and the dwelling unit shall be equipped with UL 1 hour rated doors, or doors in compliance with Section 715.4.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Doors shall be self-closing and self-latching.

[F] 501.2 Address numbers. Buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and
visible from the street or road fronting the property. Occupancies containing two or separate uses shall additionally place address numbers, building numbers or approved building identification on the rear access of each use. Residential occupancies with garages serviced by a rear private drive, alley or parking lot shall additionally place address numbers, building numbers or approved building identification on the rear access visible from the rear private drive, alley or parking lot. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabetical letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

705.3 Materials. Fire walls shall be of any approved noncombustible materials.
   Exception:
   1. Buildings of Type V construction.
   2. All attached single-family structures and multi-family structure containing three or more dwelling units or one or more dwelling units in a structure containing any other use shall have two-hour fire rated wall/ floor/ceiling assemblies between uses. Fire rated separation walls shall be constructed of masonry and all fire resistive rated floor, floor/ceiling assemblies shall be of pre-cast concrete or poured in place concrete.

1101.1 Scope: The Building Official shall require that the provisions of the current "Illinois Accessibility Code Law" as presently in force or as the same may be hereafter amended or modified and the same is hereby incorporated herein by reference and adopted as the standard for the purposes of this Ordinance. Any conflicts concerning the provisions of these codes shall be determined by the strictest standard contained in the code provisions.

1805.4.5 Timber Footings, delete section

1805.4.6 Wood Foundations, delete section

1905.12 Replace the entire section as follows:

Cold Weather is defined as a period when one (1) of the following conditions exist for more than three (3) consecutive days:

1. Average air temperature is less than forty degrees Fahrenheit (40°F);
2. Air temperature is less than forty degrees Fahrenheit (40°F) for more than one-half (1/2) of any twenty-four (24) hour period.

Average air temperature is the average of the highest and lowest temperature occurring during the period from midnight to midnight. After the first cold weather condition or after
December 1st, whichever comes first, all concrete shall be subject to cold weather requirements until April 1st.

Footings shall be poured only on frost free soil when the temperature is not less than twenty-five degrees Fahrenheit (25°F) and rising. Concrete must be protected in forms for not less than two (2) days, with insulation blankets only.

Foundations shall be poured when the temperature is not less than twenty-five degrees Fahrenheit (25°F) and rising. The pour shall be completed by noon to maximize curing time prior to nighttime falling temperatures. Forms shall be kept in place for not less than three (3) days and covered completely by insulation blankets. Slab on grade foundations may be stripped after forty-eight (48) hours, provided that the foundation will be completely back-filled within six (6) hours of stripping forms.

Flatwork: After the first frost, the building official shall determine whether flatwork can continue. No flatwork is allowed on the outside of buildings or garages from December 1st to April 1st without the approval of the building official. Flatwork is allowed in the basement of a structure and in attached garages if the ambient air temperature is maintained at fifty degrees Fahrenheit (50°F). U.L. listed, vented type heaters are permitted for supplemental heat provided the unit is adequately vented to the exterior of the building.

The use of salamanders (torpedo heaters) or other equipment that expel flue gases into the area above concrete floors is prohibited because of the carbonation to fresh concrete.

Masonry: All masonry construction laid in temperatures of the outside air below forty degrees Fahrenheit (40°F) shall be enclosed and heated for not less than forty-eight (48) hours. Frozen materials shall not be used nor shall frozen masonry be built upon.

2304.3.4 Add Section: Wood Framing
1. Bearing Walls: Studs in bearing walls and partitions shall be constructed of at least two inch by four inch (2" x 4") material spaced a maximum of sixteen inches (16") on center.
2. Non-Bearing Walls: Studs in non-bearing walls and partitions shall be constructed of at least two inch by four inch (2" x 4") material spaced a maximum of sixteen inches (16") on center with the wide dimension perpendicular to the wall. A single top plate shall be prohibited except where such a plate is installed in accordance with Section 2308.9.2.1.

2308.9.2.3 Delete section and replace with: Non-Bearing Walls and Partitions: Studs in non-bearing walls and partitions shall be constructed of at least two inch by four inch (2" x 4") material spaced a maximum of sixteen inches (16") on center with the wide dimension perpendicular to the wall. A single top plate shall be prohibited except where such a plate is installed in accordance with Section 2308.9.2.1.
2701.2 Add: "2701.2 Electric Wiring, Equipment and Systems of the International Building Code - 2006, shall be amended by the inclusion of the following paragraphs:

1. The Village Building Official shall require that the provisions of the 2005 edition of the 'National Electric Code' as presently in force or as the same may be hereafter amended or modified, be incorporated herein by reference and adopted as the standard and that all such installations shall conform to the provisions of the 'National Electric Code' in addition to a designation in Chapter 35 of standards of NFPA 70. Any conflicts concerning the provisions of these codes shall be determined by the strictest standard contained in the provisions.

2. All electrical wiring in residential, commercial and industrial buildings, all wiring within the building and all accessory structures shall be enclosed in rigid metal conduit (Article 346), or intermediate conduit (Article 345), or electrical metal tubing (Article 348) or flexible metal conduit (Article 350).

3. Add the following section to Article 347-2: In exterior sub-grade location only. The transition to metal shall be below grade with a metallic elbow.

2901.1 Change the section as follows:
The provisions of this chapter and the "Illinois Plumbing Code Law", 225 ILCS 320/1 et seq., as presently in force or as the same may be hereafter amended or modified and the same is hereby incorporated herein by reference and adopted as the standard for the purposes of this Ordinance shall govern the erection, installation, alteration, repairs, relocation, replacement, addition to, use, or maintenance of plumbing equipment and systems. Any conflicts concerning the provisions of these codes shall be determined by the strictest standard contained in the code provisions.

Appendix A Adopt Appendix A

Appendix A Adopt Appendix A “Employee Qualifications

Appendix B Adopt Appendix B “Board of Appeals”

B101.2 Change as follows: Membership [of] Said Board shall consist at all times of the then duly qualified Mayor of the Village of Manhattan and the Village Board of Trustees of the Village of Manhattan.

B101.2.1 Delete

B101.2.2 Delete

B101.2.4 Change as follows: The Mayor shall serve as Chairperson.

Appendix C Adopt Appendix C “Agricultural Buildings”
Appendix F  Adopt Appendix F  “Rodent Proofing”

That section 903.2 of the 2006 International Building 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 or 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 GROUP H-5 SPRINKLER DESIGN CRITERIA
<table>
<thead>
<tr>
<th>LOCATION</th>
<th>OCCUPANCY HAZARD CLASSIFICATION</th>
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</thead>
<tbody>
<tr>
<td>Fabrication areas</td>
<td>Ordinary Hazard Group 2</td>
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<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>

[F] 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).

[F] 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.

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

[F] 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 including single family that is attached to any other use group.

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

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

[F] 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.

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

[F] 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.

[F] 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.

[F] 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.

[F] 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

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SUBJECT</th>
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<tr>
<td>402.8</td>
<td>Covered malls</td>
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<td>High-rise buildings</td>
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<td>404.3</td>
<td>Atriums</td>
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<td>Underground structures</td>
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<td>407.5</td>
<td>Group I-2</td>
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<td>410.6</td>
<td>Stages</td>
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<td>411.4</td>
<td>Special amusement buildings</td>
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<td>412.2.5, 412.2.6</td>
<td>Aircraft hangars</td>
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<td>415.6.2.4</td>
<td>Group H-2</td>
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<td>Flammable finishes</td>
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<td>417.4</td>
<td>Drying rooms</td>
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<td>507</td>
<td>Unlimited area buildings</td>
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<td>508.2</td>
<td>Incidental use areas</td>
</tr>
<tr>
<td>1025.6.2.3</td>
<td>Smoke-protected assembly seating</td>
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<tr>
<td>IFC</td>
<td>Sprinkler system requirements as set forth in Section 903.2.13 of the International Fire Code</td>
</tr>
</tbody>
</table>

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

SECTION 4. That section [F] 907.14 of the 2006 International Building Code shall be deleted in its entirety and the following inserted in lieu thereof:

[F] 907.14 MONITORING. Fire alarm systems required by this chapter or the International Fire Code shall be directly connected to the Communications Center of the Manhattan fire Protection District in a method approved by the Code Official in accordance to provisions of NFPA 72.

Exception: 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.

SECTION 5. That section 3403.1 of the 2006 International Building Code shall be deleted in its entirety and the following inserted in lieu thereof:
3403.1 Existing buildings or structures. Additions or alterations to any building or structure shall comply with the requirements of the code for new construction, except for any local amendments to Section 903.2. Additions or alterations shall not be made to an existing building or structure that will cause the existing building or structure to be in violation of any provisions of this code. An existing building plus additions shall comply with the height and area provisions of Chapter 5. Portions of the structure not altered and not affected by the alteration are not required to comply with the code requirements for a new structure.

SECTION 6. That section 3410.2.4 of the 2006 International Building Code shall be deleted in its entirety and the following inserted in lieu thereof:

3410.2.4 Alterations and repairs. An existing building or portion thereof, which does not comply with the requirements of this code for new construction, except for any local amendments to Section 903.2, shall not be altered or repaired in such a manner that results in the building being less safe or sanitary than such building is currently. If, in the alteration or repair, the current level of safety or sanitation is to be reduced, the portion altered or repaired shall conform to the requirements of Chapters 2 through 12 and Chapters 14 through 33.