



## CHAPTER 12 BUILDINGS AND BUILDING REGULATIONS\* ————— ARTICLE II – BUILDING CODE

\*Cross reference(s)--Airport zoning, § 5-36 et seq.; erosion and sedimentation control, Ch. 15; fire prevention codes and standards, § 17-101 et seq.; floodplain management, Ch. 18; open housing, § 22-41 et seq.; planning and development, Ch. 34; preservation, Ch. 37; awnings, § 42-176 et seq.; subdivisions, Ch. 43; zoning, App. A. --State law reference(s)--Powers of home rule units, Ill. Const. art. VII, § 6.

### ARTICLE II. - BUILDING CODES DIVISION 1. - GENERALLY

#### Sec. 12-16. - ~~2009~~ International Code Council Series Adopted.

A certain document, three (3) copies of which are on file in the office of the Building Code Official of the City of Aurora, Illinois, being marked and designated as:

- ~~2009-2015~~ International Building Code - including Appendix Chapters (A, B, ~~E~~, F, ~~H~~, K);
    - ~~With ICC A117.1 and it sits reference(s) to the 2010 Americans with Disabilities Act.~~
    - ~~2009 International Plumbing Code including Appendix Chapters (E, F & G);~~
  - ~~2009-2015~~ International Mechanical Code - including Appendix Chapter (A);
  - ~~2009-2015~~ International Fuel and Gas Code - including Appendix Chapters (A, B, C, D);
  - ~~2009 International Energy Conservation Code;~~
  - ~~2009-2015~~ International Residential Code - including Appendix Chapters (E, F, G, J, K, M, O, P);
  - ~~2009-2015~~ International Existing Building Code - including Appendix Chapters (A, B);
  - ~~2009-2015~~ International Fire Code - including Appendix Chapters (A, B, C, D, F, H, I, J).
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- ~~2015 International Swimming Pool and Spa Code.~~
  - ~~2015 International Solar Energy Provisions~~
  - ~~2014 National Electrical Code (NFPA 70) as adopted and amended by Article III. Electricity Sec. 12-31 and 12-32 of the Aurora Code of Ordinances.~~

As published by the International Code Council, Inc., and adopted as the building code of the City of Aurora, Illinois in the State of Illinois; for the control of buildings and structures as herein provided; and each and all of the regulations, penalties, conditions, and terms of said ~~2009-2015~~ International Codes are hereby referred to, and amended in part hereof as if fully set out in this article, with the additions, insertions, deletions, and changes, prescribed in section 12-17.1 through 12-17.8 of this article. Nothing in this article or in the Aurora Building Code hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed as cited in section 12-17.1 through 12-17.8 of this article; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this article.

Furthermore the following State adopted and amended code standards are enforced/adopted as modified:

- Current State of Illinois Accessibility Code
- Current State of Illinois Plumbing Code – broad references from the ICC series codes to the IPC shall hereby be replaced with reference to the “Current State of Illinois Plumbing Code”.
- Current State of Illinois Energy Conservation Code
- Current Illinois State Safety Code for Elevators and Escalators consisting of the following American Society of Mechanical Engineers (ASME), American National Standards (ANSI), and American Society of Civil Engineers (ASCE) standards, and any ~~newer or~~ additional references required by the State of Illinois.
  - Safety Code for Elevators and Escalators (ASME A17.1-2005), A 17.1 (a)-2005, and A17.1(s)-2005.
  - Guide for Inspection of Elevators, Escalators, and Moving Walks (ASME 17.2-2004)
  - Safety Code for Existing Elevators and Escalators (ASME A17.3-2005)
  - Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A 18.1-2005); and
  - Standard for the Qualification of Elevator Inspectors (ASME QE1-1)-2004)
  - Safety Requirements for Personal Hoists and Employee Elevators (ANSI A10.4-2004)
  - Automated People Mover Standards (ASCE 21-2000).
- Current State of Illinois Life Safety Code for existing buildings (Portions of NFPA 101 plus Annex A & B) as adopted and required by the State Fire Marshal's Office
- 2014 National Electrical Code (NFPA 70) and Annex H as amended by Article III. Electricity Sec. 12-31 and 12-32 of the Aurora Code of Ordinances.

**Commented [Aurora1]:** Guys here is our 2009 amendments please review and provide and comments to me about what we can get rid of or what we should add when compared to the 2015 code.

**Commented [Aurora2]:** Accessibility changes are forthcoming from State we do not desire to further complicate compliance determinations with Appendix E at this time.

**Commented [Aurora3]:** Signage Appendix

**Commented [Aurora4]:** New Code book with both Commercial and One-Two family provisions

**Commented [Aurora5]:** Double check section numbers.

**Commented [Aurora6]:** Double check Aurora Sec references.

**Commented [CJ7]:** State pre-emption requires this being struck or modified with approval from IDPH (Need to secure this approval)

**Commented [JPC8]:** 2016 Staff Recommendation –eliminate years to avoid confusion.

**Commented [JPC9]:** Being modified to 2014 under separate ordinance

**Commented [Aurora10]:** Double check section numbers.

- ▲ Illinois State Safety Code for Elevators and Escalators, consisting of the following American Society of Mechanical Engineers (ASME), American National Standards (ANSI), and American Society of Civil Engineers (ASCE) standards, and any newer or additional references required by the State of Illinois:
- ▲ Safety Code for Elevators and Escalators (ASME A17.1-2005); A 17.1 (a)-2005; and A17.1(s)-2005;
- ▲ Guide for Inspection of Elevators, Escalators, and Moving Walks (ASME 17.2-2004);
- ▲ Safety Code for Existing Elevators and Escalators (ASME A17.3-2005);
- ▲ Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A 18.1-2005);
- ▲ Standard for the Qualification of Elevator Inspectors (ASME QEI-1-2004);
- ▲ Safety Requirements for Personal Hoists and Employee Elevators (ANSI A10.4-2004);
- ▲ Automated People Mover Standards (ASCE 21-2000);
- ▲ State of Illinois Life Safety Code for existing buildings (Portions of NFPA#101 plus Annex A & B) as adopted and required by the State Fire Marshal's Office;
- ▲ 2008 National Electrical Code (NFPA 70) as amended by Article III, Electricity Sec. 12-22 of the Aurora Code of Ordinances;

(Ord. No. 010-017, 5-11-10)(Ord. No. 010-017, 5-11-10)

#### Sec. 12-16.1. - Permanent building and fire code committee.

This committee shall act in an advisory capacity to the city council on matters pertaining to amendments to Aurora Building Codes, except the (NEC), state mandated codes and other matters pertaining to buildings and construction standards referred to said committee by the city council.

**12-16.1.1 Membership:** The membership of this committee shall consist of the regularly appointed members of the Building and Fire boards of appeal, as provided in IBC Appendix B and IFC Appendix A. The mayor, with the advice of the city council, may from time to time, appoint an additional member representing a Residential Contractor or Developer.

(Ord. No. 010-017, 5-11-10)(Ord. No. 010-017, 5-11-10)

#### Sec. 12-16.2. - Electrical commission.

Electrical commission created; composition; qualifications, appointment, term of members; meetings and minutes.

In accordance with the statutes of the State of Illinois, there is hereby created and established in the city, an electrical commission consisting of six (6) members. ~~The director of Building and Permits shall be a member and ex-officio chairman of such commission.~~ At the last city council meeting in December of each two-year term, the city council shall appoint persons as members of said electrical commission whose qualifications shall be as follows: one (1) shall be a registered professional engineer; 1. one (1) an electrical contractor; 2. one (1) a journeyman electrician; 3. one (1) a representative of an inspection bureau maintained by the fire underwriters (or, if no such representative resides in the city, then the chief of the Aurora Fire Department); 4. and one (1) a representative of an electricity supply company (or, if no such representative resides in the city, then another member whom meets criteria 1-4) Such members shall be appointed for a two-year term or until their successors have been appointed and qualified by the city council. The director of building and permits, as ex-officio ~~chairman-secretary~~ of the electrical commission, shall notify the members, in writing, as to the time and place of any meetings of the commission. Each meeting of the commission shall be recorded by a ~~the~~ secretary or designee and minutes shall be kept on file in the office of the building and permits director.

**12-16.2.1 Electrical commission responsibilities.** The electrical commission shall make recommendations to the city council regarding:

1. Safe and practical standards and specifications for the installation, alteration and use of electrical equipment designed to meet the necessities and conditions of the city.
2. Reasonable rules and regulations implementing this electrical code ordinance.
3. The electrical commission shall also make recommendations to the director of Building and Permits regarding the revocation of an electrical contractor's license.

(Ord. No. 010-017, 5-11-10)(Ord. No. 010-017, 5-11-10)

#### Sec. 12-16.3. - Conformance with state statutes.

12-16.3.1 It shall be the responsibility of the code officials to cooperate with all state agencies and subdivisions thereof and the various organizations which regulate the professions herein, to enforce the provisions of the several acts governing the registration of architects, structural engineers, professional engineers, land surveyors, alarm installers, plumbing contractors and roofers of the State of Illinois.

~~12-16.3.2 It shall be the responsibility of the code officials to cooperate with all state laws and codes including but not limited to current editions of the following:~~

- A. The State of Illinois Accessibility Code
- B. The State of Illinois Plumbing Code
- C. The State of Illinois Elevator Safety Program
- D. The State of Illinois Energy Code
- E. The State of Illinois Fire Marshal's Office adoption of
  - 1. The State of Illinois Elevator Safety Program
  - 2. The State of Illinois Life Safety Code

(Ord. No. 010-017, 5-11-10)(Ord. No. 010-017, 5-11-10)

## ARTICLE II. DIVISION 2. -- BUILDING CODE

Sec. 12-17.1. - Additions, insertions, deletions and changes.

Commented [Aurora11]: Relocated above

Commented [Aurora12]: Conflicts with adopted rules of the Electrical Commission. BP director is Ex-Officio Secretary to the Commission.

Commented [Aurora13]: Clarification from Electrical commission rules

Commented [Aurora14]: This is a replication from 12-16

The following sections of the ~~2009-2015~~ International Building Code adopted in section 12-16 ~~are is~~ hereby revised as follows:

#### CHAPTER 1

##### Section 101.4 Referenced codes shall be amended as follows:

104.1.3 Plumbing. The State of Illinois Plumbing Code Pre-empts our adoption of any plumbing code in conflict with the State of Illinois Plumbing Code. For Plumbing Regulated by the State of Illinois please refer to the Current State of Illinois Plumbing Code.

##### Section 105 Permits shall be amended as follows:

**105.1 Required.** Any owner or owner's authorized agent who intends to ~~construct~~, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, including detached accessory structures; or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code; or to construct, erect, install, or enlarge a fence; or construct any driveway or for the installation of pavement in the form of private walks, patios or parking pads adjacent to driveways capable of parking vehicles or construct or modify pavement in the public right of way, including public sidewalks, aprons, curbs, and curb-cuts, or to cause any such work to be ~~done~~performed, shall first make application to the building official and obtain the required permit.

**105.2 Work exempt from permit.** Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

Permits shall not be required for projects where in the opinion of the Building Official the material costs are under two hundred and fifty dollars (\$250.00), or where the material plus the labor costs are less than five hundred dollars (\$500.00) unless the Building Official determines necessary to issued when the permit is the subject of curing a code violation citation. In addition, permits shall not be required for the following:

Building:

1. ~~Sheds~~ (sheds require permits).
2. ~~Fences~~ (fences require permits).
3. Oil derricks.
4. Retaining walls which are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or III-A liquids.
5. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18,927-925 L) and the ratio of height to diameter or width does not exceed 2 to 1.
6. Sidewalks on private property not more than 30 inches above adjacent grade and not over any basement or story below, and are not part of an accessible route; provided that the sidewalk is not adjacent to a driveway for more than 5 feet. (Some private property sidewalks, all sidewalks in rights-of-way and all driveways require permits).
7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
8. Temporary motion picture, television and theater stage sets and scenery.
9. Prefabricated swimming pools accessory to a Group R-3 occupancy, as applicable in Section 101.2, which are less than 24 inches (610 mm) deep, do not exceed 5,000 gallons (19,000 L) not designed or manufactured with circulation system (pump) and are installed entirely above ground, -OR On ground storable pools that are disassembled in their entirety and put into storage between the dates of September 15 and May 15 of each year.
10. Shade cloth structures constructed for nursery or agricultural purposes and not including service systems.
11. Swings and other playground equipment accessory to one ~~-and~~ two-family dwellings.
12. Window awnings in Group R-3 and Group U occupancies, supported by an exterior wall that do not project more than 54 inches from the exterior wall and do not require additional support.
13. Nonfixed and Movable fixtures, cases, racks, counters and partitions not over 5 feet 9 inches (1753 mm) in height.
14. Electrical Installations per Article III. ELECTRICITY - section 103.2 and NEC 90.2 are exempt from permit.
15. Windows/Doors that are being replaced that do not alter the structural framing or egress requirements are exempt from a building permit. Note that if in a historic district, Fox Walk district or if a historic structure you will be required to obtain a certificate of appropriateness. Additionally, despite lack of permit requirement, the State Adopted Energy Conservation Code shall be adhered to.
16. Radon mitigation projects
17. Temporary Ramps at single family homes. Ramp shall not encroach upon zoning setbacks and shall be removed within 180 days after the occupants accessibility need(s) has ceased.
18. Replacement of water heaters with water heaters of like type; capacity and fuel demand.
19. Lawn irrigation systems; provided that system is entirely on private property and provided that the required RPZ backflow device is registered with our backflow consultant and program.

~~14.~~

19.

The following subsection shall be added to Section 105:

Subsection 105.3.1.1 shall be added as follows:

**Commented [Aurora15]:** NOTE the EXISTING BUILDING CODE SCOPE OF APPLICABILITY TO THE COMMITTEE. ALL EXISTING BUILDINGS START WITH THE IEBC NOT IBC.

**Commented [Aurora16]:** Bumped up thresholds from 100;250 to 250;500

**Commented [Aurora17]:** Using language from the new ISPSC code to achieve the same result.

**Commented [Aurora18]:** Consistency formatting

**105.3.1.1 Withholding of permits:** Whenever the code official shall find that any contractor or owner is in violation of this code, or of any other ordinances of the city or state, he may refuse to grant any further permits to such violating contractor (or any owner employing such violating contractor) or to such violating owner (or anyone obtaining a permit for such violating owner's premises) until all violations have been corrected.

**105.3.1.1-2 Indebtedness to the City of Aurora:** Any City liens, fines or city fees shall be paid prior to permit issuance.

~~The following subsection shall be added to Section 105:~~

**105.8 Prerequisite for permit:** No building permit for new construction shall be issued unless the following improvements are provided:

- (1) Refer to Section 43-12 Subdivision Control Ordinance
- (2) Refer to Section Article II.H Subsection 140.1 Required Access

**Subsection 107.1 shall be changed by adding the following:**

**107.1.1 The first page of each set of drawings shall further contain the following information:**

REQUIRED PLAN COVER SHEET INFORMATION FOR REVIEW

UNDER ~~2009-2015~~ International Codes,  
STATE OF ILLINOIS ACCESSIBILITY CODE, ICC A117.1 and the 2010 ADA  
STATE OF ILLINOIS ENERGY CONSERVATION CODE AND  
THE STATE OF ILLINOIS PLUMBING CODE

CODE REVIEW DATA

- A. Use and Occupancy group(s) classification (indicate single use; or single use with incidental use/accessory use; or mixed use separated/non-separated), (Chapter 3). If a change of use is requested per IEBC Chapter 10 then the Existing use group(s) shall be identified, and IEBC Chapter 10 shall additionally be required for code compliance.
- B. Type(s) of construction (Chapter 6).
- C. Square footage of building and allowable square footage with increases (specify each floor or fire area), (indicate if sprinklered and/or alarmed), (Chapter 5).
- D. Occupant load based on International Building Code (Chapter 10).
- E. Occupant load based on State of Illinois Plumbing Code (Section 890.810 (2)).
- F. Designed live loads (Chapter 16).
- G. The Design Professional in Responsible Charge shall be named and further shall be required to coordinate multiple submittals in an application per IBC 107.3.4.
- H. For Existing Structures, indicate the classification (intensity) of work per IEBC Chapter 5. For projects with multiple classifications in different areas of work, an IEBC work classification exhibit shall additionally be provided on the cover page. Per IEBC Chapter 5 the referenced chapters in IEBC shall be required for code compliance.
- I. Area of Work Key Plans
- J. Life Safety Plans

The application for permit shall be accompanied by not less than ~~six-FOUR (64)~~ sets of construction documents. The code official is permitted to waive or modify the requirements for filing construction documents when the scope of the work is of a minor nature.

~~The following subsection shall be added to Section 105:~~

~~**105.3.1.1 Withholding of permits:** Whenever the code official shall find that any contractor or owner is in violation of this code, or of any other ordinances of the city or state, he may refuse to grant any further permits to such violating contractor (or any owner employing such violating contractor) or to such violating owner (or anyone obtaining a permit for such violating owner's premises) until all violations have been corrected.~~

**The following subsection shall be added to Section 107:**

**107.2.1.1 Engineering details:** The code official may require to be filed adequate details of structural, mechanical, plumbing and electrical work, including computations, stress diagrams and other essential technical data. All engineering plans and computations shall be coordinated by and shall bear the signature and seal of the engineer or architect responsible for the design as required by subsection 107.3.4.

**The following subsection shall be added to Section 109.2:**

**109.2.1 Fees for certified private educational facilities:** Upon presentation of acceptable documentation, certified private educational facilities (Kindergarten and above grades) shall receive a 50% reduction in building permit fees for remodeling, repair, additions, alterations or similar improvements to buildings and structures. Fees shall not be waived for new construction, nor shall fees be waived for deposits, bonds, City tap fees and inspections and/or reviews performed by outside consultants, or for any out of pocket expenses incurred by the City associated with the construction permit process. The burden of proving that the facility qualifies for the partial waiver as set forth in this paragraph shall be borne by the facility asserting the entitlement to the partial waiver of fees.

**The following subsection shall be added to Section 109.6:**

**109.6.1 Refunds:** whenever the work for which a permit was granted is not started and the six ~~months time~~ months' time limit for permits has not lapsed, the holder of the permit may receive a refund of 50% of the City Building Permit Fees paid. The refund

Commented [Aurora19]: Relocated to correct subsection

request must be made in writing to the Division of Building and Permits and all permits must be surrendered. This policy does not apply to the non-refundable portions of the plan examination fee.

The following subsections shall be deleted from Section 111.2:

111.2 Certificate Issued: Delete the following items:

—7, 8, 9, 10, 11, and 12. These items may be found in the permit records and will be posted on the Certificates of Occupancy when our technology permits customization of the Certificates.

**The following subsection shall be added to Section 114.4:**

**114.4.1 Violations** shall be a misdemeanor, punishable by a fine of not more than One Thousand dollars (\$1000.00) per violation. Each day that a violation continues shall be deemed a separate offense.

Subsection 115.3 shall be changed to read as follows:

115.3-114.4.2 A violation or unsafe condition shall be liable to a fine of not less than fifty dollars (\$50.00) or more than one thousand dollars (\$1000.00) per violation. Each day that a violation continues shall be deemed a separate offense.

**The following subsections shall be added to Section 116:**

116.4 Method of Service: add method (d) sent by first class mail, postage prepaid, to the recipients at their last known address.

**116.6 Imminent danger; demolition of structures:** When, in the opinion of the code official, there is actual and immediate danger of failure or collapse of a building or structure or any part thereof which would endanger life, or when any structure or part of a structure has fallen and life is endangered, the code official is hereby authorized and empowered to make the necessary arrangements to have said building or structure demolished without the necessity of court order. The code official may retain the services of an Illinois Licensed Structural Engineer to assist in making the demolition determination. Two hundred percent of All costs incurred therefore shall may be charged to the owner(s) of record and if payment is not made within thirty (30) days, a lien shall be recorded against the property.

**116.7 Costs of emergency repairs:** Costs incurred in the performance of emergency work shall be paid from the treasury of the jurisdiction on approval of the code official. The legal counsel of the jurisdiction shall institute appropriate action against the owner of the premises where the unsafe structure is or was located, and two hundred percent of the cost of such work shall may be charged against the real estate upon which the structure is or was located and shall be a lien upon such real estate.

The following Section shall be added:

The following Section shall be added:

#### **SECTION 117 REGISTRATION OF CONTRACTORS**

117.1 No construction work, as set forth in Section 117.2 through 117.8 may be installed, or replaced within the City of Aurora except by persons, firms, or corporations duly registered to perform such work, except as hereinafter provided.

Registrations shall be issued by the Division of Building and Permits to those persons, firms, or corporations qualified to perform such work, as set forth in this Section and as determined by the code compliance officers. Companies and corporations, upon transfer of ownership, shall be required to meet the testing requirements and apply for new licensure. Copies of Photo ID's, State trade contractor licenses, and State business registrations will be required as applicable.

117.1.1 Registration fee: The fee for contractor's registration shall be ~~one~~ two hundred dollars (\$200.00) per year and per trade. Said registration(s) shall be renewed annually unless stated otherwise in the specific trade regulations below. Contractors qualifying as Aurora StAR contractors based upon the inspection passing percentage the prior year 12 months, will be credited with a one hundred dollar (\$100.00) discount at time of annual renewal. Contractor audit reports may be requested for free at any time. Requests to update publicly visible annual on-line StAR contractor passing percentages will be accommodated with a service charge to match the minimum permit extension fee.

117.1.2 -Single Family Dwelling Property owner exemption: The provisions herein contained shall not require an owner of record occupying having occupied a single-family dwelling from personally doing his own work on said owner-occupied single-family dwelling to obtain a registration; provided that said owner of record will live continue to live in the residence for a period of not less than six (6) months after the completion of the construction and submits the required identification(s) and recordings demonstrating current occupancy of the structure and an owners affidavit attesting to current and continuing occupancy.

117.1.2.1 Projects requiring special knowledge: projects requiring special knowledge and training indicated below shall be performed by a licensed contractor.

a) Electrical Work

—1) New Service and service replacements

—2) Alternative power generation equipment (-Photovoltaic, Wind turbines, Generators, etc.-) shall be installed by licensed contractors with training specialized in their installation.

**Commented [Aurora20]:** Add something here to mirror recapturing costs for emergency violation issues when called out and violations exist.

**Commented [Aurora21]:** THIS WHOLE SECTION REVISED WITHIN THE 2014 NEC ADOPTION UNDER SEPARATE ORDINANCE.

**Commented [Aurora22]:** Removed Permit threshold confusion in this section and moved this to the Permit exemption area.

**Commented [Aurora23]:** Consider Initial, Renewal, Lapsed fee, Performance evaluation.

**Commented [Aurora24]:** Incorporating current practice from 2010 fee resolution.

**Commented [Aurora25]:** New request – this would currently be a \$30 charge.

**Commented [JPC26]:** We Can consider adding the 'Homestead Exemption' location - YES we can get from Tax Recorders office.

**Commented [Aurora27]:** LEGAL is OK with the following  
1. State Issued ID OR Consulate Matricular a  
AND  
2. Assessor/Recorders office acknowledgment/recording  
PLUS  
3. Revised Affidavit attesting to current and continuing occupancy. Notary may also be required.

**117.1.2.42 Hired Assistance Prohibited:** Owner of record occupying a single-family dwelling wishing to do their own work without a licensed contractor per 117.1.2 shall be prohibited from hiring assistance in any way on the project without the hired assistant becoming a licensed contractor in the appropriate trade. Owner may be subject to fines up to two times the permit fees in penalties should permit applications fraudulently indicate the owner is doing the work when they have hired persons engaging in the work.

**117.1.2.43 CDBG or HOME funded volunteer based projects** benefiting low-moderate income homeowners at their homestead are exempt from licensed contractor requirements and shall be permitted under the property owner exemption. Depending upon timeframe and work hours of the volunteer project, in relation to Building and Permits normal work hours, inspection requirements and permit closing requirements may additionally be waived as determined by the Building Code Official.

**117.1.2.4 Apprentice Programs or Board of Education volunteer based projects:** benefiting not-for profits OR low-moderate income homeowners at their homestead are exempt from licensed contractor requirements and shall be permitted under the supervision of a journeyman or a certified instructor.

**117.1.3 Bond required:** Performance bonds as prescribed by the City of Aurora Engineering department will be required for work in City of Aurora rights of way. Aurora encourages all owners to secure appropriate bonds to protect their private property. No person, firm, association, partnership or corporation shall be granted a registration until he or it has filed with the Division of Building and Permits, an irrevocable 'Illinois License and/or Permit Bond' issued by a surety company, satisfactory to the Division of Building and Permits in the principal amount of twenty thousand dollars (\$20,000.00), conditioned upon the faithful observance of all regulations and requirements of ordinances of the City of Aurora then in force, or which may thereafter be in force, concerning or regulating work as defined in Section 117.1, and conditioned further to indemnify, save and keep harmless the city from any loss, cost, damage, expense or liability of any kind whatsoever which the city may suffer or which may accrue against it by reason of anything done by such person, firm, association, partnership, or corporation in performing work in the City of Aurora. Certificates submitted shall be originals — not copies. Continuation certificates will not be honored.

**117.1.4** Further, a copy of liability insurance must be submitted to the Division of Building and Permits. The certificate submitted must indicate the following coverage minimums:

**117.1.4.1** General Liability;

**117.1.4.1.1** Commercial General Liability per occurrence in the minimum amount of \$500,000.

**117.1.4.1.2** Commercial General Liability- General Aggregate limit policy minimum amount of \$1,000,000.

**117.1.4.2** Workers Compensation and Employer's Liability:

**117.1.4.2.1** Workers Compensation and Employer's Liability coverage indicating compliance with statutory limits.

**117.1.4.3** Additional Insured(s):

**117.1.4.3.1** Additional Insured coverage must include: 'City of Aurora' as primary and non-contributory.

**117.1.5** Revocation of Contractor Registration: Contractors registrations as defined herein may be revoked by the City of Aurora for failure to comply with the requirements of this code or other ordinances of the City of Aurora pertaining to the work being performed.

**117.1.5.1** Notice of revocation: The code official or his designated representative shall serve the registered contractor, by email, by registered mail, certified mail, certificate of mailing or by personal service, a written notice of revocation which shall describe the grounds for revocation and the effective date which shall be not less than thirty (30) days from the date of service.

**117.1.5.2** Appeal: The contractor may appeal to the appropriate board of appeals, from a decision of the code official to revoke a contractor registration; said application for appeal shall be filed no later than twenty (20) days from the date of revocation service.

**117.1.5.3** Re-registration: A contractor whose registration has been revoked shall not make application for, or be issued a new registration within twelve (12) months from the date of revocation.

**117.1.5.4** Unless prohibited by the State, the code official is authorized to issue conditional or probationary registrations for contractors who have violated code provisions.

**117.1.6 Contractor Testing:**

~~Contractor testing hosted by the city of Aurora shall be assessed a non-refundable fee of \$100 dollars per test unless otherwise stated below.~~

**117.1.6.1 Tests shall be taken by a Qualifying Party**

**117.1.6.1.1 Qualifying party:** means the individual filing as a sole proprietor, partner of a partnership, or officer of a corporation, who is legally qualified to act for the business organization in all matters connected with its contracting business and has the responsibility to supervise

**Commented [Aurora28]:** This has been collected upon once in 20 plus years. Should we continue this practice?? We are already protecting ourselves by insisting upon Aurora as Additional insured below.

installation operations, and is actively engaged in day to day activities of the business organization.

117.1.6.1.1.1 The Director may waive qualifying party requirements when in the opinion of the Building Official the contractor has demonstrated that they solely employ tradesmen whom are required to participate in an adequate amount of certified continuing education or an apprentice program.

117.1.7 ICC testing-Option: In addition to the testing requirements below, written Examination from the International Code Council OR reciprocal testing from another acceptable municipality shall also be ~~accepted~~ required as qualification for registration in the following registration categories.

117.1.7.1 HVAC contractors

117.1.7.1.1 ICC - Master Mechanical Certification

117.1.7.2 Electrical contractors

117.1.7.2.1 Commercial Electrical Contractor registration; ICC – Standard Master Electrician.

117.1.7.2.2 Residential Electrical Contractor registration; ICC – Standard Residential Electrician.

117.1.7.2.3 Signage Electrical Contractor registration; ICC – Standard Journeyman Sign Electrician OR an ICC – Standard Master Electrician certification.

## **117.2 REGISTRATION OF HEATING, AIR-CONDITIONING & MECHANICAL/VENTILATION CONTRACTORS:**

**117.2.1 Work requiring City of Aurora Registered HVAC Contractor:** Automatic or manually controlled heat-producing, air-conditioning or mechanical ventilation equipment covered by this code.

**117.2.1.1 Electrical contractor exception:** Duly licensed electrical contractors may be issued a permit to install electric heat-producing equipment, without mechanical air flow or duct work required, without obtaining a further registration.

**117.2.1.2 Qualifications:** To qualify for registration, a qualifying party of the firm or corporation must first pass a written examination per section 117.1.6 or 117.1.7.

**117.2.1.2.1 Reciprocal licensing:** Contractors duly qualified and licensed in other municipalities or states may be issued licenses by reciprocity provided that the code official accepts the equality of the procedure under which the candidate obtained the original license. Contractors shall still make payment for a license and conform to the ~~bonding and~~ insurance requirements of this code.

## **117.2.2 FIREPLACE INSTALLATION CONTRACTORS:**

**117.2.2.1 Qualifications:** To qualify for registration, a qualifying party of the firm or corporation must present qualifications and certifications acceptable to the Building Official - (i.e. Wood & Gas Fireplace Certification issued by the National Fireplace Institute). ~~first pass a written examination, as provided by the City of Aurora's Permanent Building and Fire Code Committee.~~

**117.2.2.2 Non-refundable testing fee** for fireplace installation contractors shall be fifty dollars (\$50).

## **117.3 REGISTRATION OF PLUMBING CONTRACTORS:**

**117.3.1 Work requiring City of Aurora Registered Plumbing Contractor:** Installing, superintending, maintaining or repairing any plumbing system covered by this code.

**117.3.2 Qualifications:** To qualify for registration: The person, partner or president of the corporation or association must be a licensed plumbing contractor by the State of Illinois or the City of Chicago to perform plumbing work.

**117.3.2.1 Fee:** Per State Law plumbing registrations shall be issued at no charge.

## **117.4 REGISTRATION OF FIRE SUPPRESSION CONTRACTORS:**

**117.4.1 Work requiring City of Aurora Registered Fire Suppression Contractor:** Installing, superintending, maintaining or repairing any fire suppression system covered by this code.

**117.4.2 Qualifications:** To qualify for registration; Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon fulfillment of bond and insurance requirements.

**117.4.2.1 Plumbing contractor exemption:** ~~Duly registered plumbing contractors may be issued a permit to maintain and/or repair fire suppression systems as permitted by the State without obtaining a further license.~~

**117.4.2.2 Single Family Property owner exemptions** shall not apply to fire suppression contractors.

## **117.5 REGISTRATION OF GENERAL CONTRACTORS:**

**117.5.1 Work requiring City of Aurora Registered General Contractor:** Installing, superintending, maintaining or repairing any work for which a permit is required by this code.

**117.5.1.1 The registration requirement** shall not apply to the owner of any property serving as a general contractor for work on buildings or structures under their ownership for work that does not exceed forty thousand dollars (\$40,000). Tenants shall ~~not act as general contractors unless licensed to do so, provide documentation that an owner wishes to be a general contractor for a tenant improvement project.~~

**117.5.2 Qualification for registration:** Registration shall be issued to individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon payment of fee and fulfillment of bond and insurance requirements.

## **117.6 REGISTRATION OF ELECTRICAL CONTRACTORS:**

**Commented [Aurora29]:** We are having more and more National contractors for whom the qualifying party may never set foot in the state let alone the job site. Additionally we are having challenges with 2<sup>nd</sup> and 3<sup>rd</sup> generation local contractors for whom we have no qualification issues but the newer generation has not taken any form of testing.

**Commented [Aurora30]:** Keeping Bond?

**Commented [Aurora31]:** Are we still in this business? IF we want a test why not Wood & Gas Fireplace Certification issued by the National Fireplace Institute)

**Commented [Aurora32]:** With new limitations on non-owner occupant SF home remodeling using home-owner exemption. This will come into play more. Intent is to have the non-owner occupant become a licensed GC when over the \$40,000 threshold. Otherwise simply Owner as GC no license required.

**117.6.1 Work requiring City of Aurora Registered Electrical Contractor:** Installing, superintending, maintaining or repairing any electrical work for which a permit is required by this code except when an existing piece of utilization equipment is replaced by equipment with the same voltage and current requirements, and the new equipment is listed by an independent testing laboratory as suitable for the application, then, in that case, no permit is required.

**117.6.1.1 Registration Classifications:**

- (a) Unlimited Registration: Industrial, commercial and residential.
- (b) Limited Registration: Residential one- and two-family only.

**117.6.2 Qualification for registration:** Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon payment of fee and fulfillment of bond and insurance requirements. A qualifying party of the firm or corporation must first pass a written examination, as provided by per section 117.1.6 or 117.1.7.

**117.6.2.1 New Registration:** The following procedures shall be followed in obtaining a new electrical contractor's registration:

- a. Make request in writing to the director of building and permits, giving a summary of experience and education together with proof of full time employment as a journeyman electrician for a period of at least forty-eight (48) months immediately prior to the date of application. After the request has been examined by the director of building and permits, the applicant will be notified, in writing, as to the time and place of a written examination to be prepared and graded by the members of the City's electrical commission. The director of building and permits shall notify the applicant of the results of the examination within thirty (30) days of the date of the examination. If the person taking the examination receives a grade of seventy (70) percent or better on the examination, the applicant shall have passed the exam.
- b. If the person applying for such registration should fail to receive said license because he failed the written examination, such person must then wait a minimum of six (6) months before reapplying for a registration.

**117.6.2.2 Reciprocal Registration:** Contractors specifically licensed as electrical contractors in other Illinois municipalities may be issued registration by reciprocity, provided that the code compliance officer/electrical accepts the equality of the testing procedure under which the candidate obtained his original registration. Contractor's registration in another municipality to perform electrical work solely on residential property shall be registration-registered in Aurora only for residential work (one-family or two-family residences). Contractors shall still make payment for a registration and conform to the bonding and insurance requirements set forth in this section.

**117.6.3 Registration of electrical maintenance persons:** Any person involved in maintenance work, who may be doing electrical repairs, alterations or installations and directly employed for the preceding twelve (12) months, for any firm, corporation or industry located within the city limits, must be registered with the Director of Building & Permits. Upon registration, such maintenance person shall be authorized by the Director of Building & Permits to engage in such electrical repairs, alterations or installations only as pertains to the firm, corporation or industry in which he is employed.

**117.6.3.1** ~~The correction of violations of this article may be performed by maintenance people only if the code compliance officer/electrical inspector determines that the violations to be corrected do not endanger life, safety or property.~~ Corrections of violations of unsafe conditions endangering life, safety or property must only be made by a licensed electrical contractor.

**117.7 REGISTRATION OF ROOFING CONTRACTORS:**

**117.7.1 Work requiring City of Aurora Registered Roofing Contractor:** Installing, maintaining or repairing any roofing work for which a permit is required by this code.

**117.7.1.1** Applicable Contractor Licensure Exemptions provided by the State of Illinois will be honored in Aurora.

**117.7.1.1.1** Property owners performing work individually on their own property.

**117.7.1.1.2** Employees of property owners for which an Employer-Employee relationship can be documented.

**117.7.1.2** Registration classifications of Residential Roofer and Commercial Roofer will be issued.

**117.7.2 Qualification for registration:** A majority owner or corporate officer, or director of the corporation must be licensed by the State of Illinois.

**117.8 REGISTRATION OF SIGNAGE CONTRACTORS:**

**117.8.1 Work requiring City of Aurora Registered Signage Contractor:** Installing, superintending, maintaining or repairing any signage for which a permit is required by this code.

**117.8.2 Qualification for registration:** Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon payment of fee and fulfillment of bond and insurance requirements.

**117.8.2.1** Signage Electrical Contractor registration shall additionally require an ICC - Standard Journeyman Sign Electrician OR an ICC - Standard Master Electrician certification. Signage Electrical contractors shall be permitted to install non-electrified signage under the same registration.

**117.8.2.2** Signage Contractors (for non-electrified installations) shall be issued to those persons, firms, associations, partnerships or corporations upon payment of fee and fulfillment of bond and insurance requirements. Although required to become a registered Signage Contractor, registered General Contractors and registered Electrical Contractors will not be required to pay fees for this registration.

Commented [Aurora33]: Obsolete language

Commented [Aurora34]: Keeping bonding?

Commented [Aurora35]: Keeping bonding?

**117.9 REGISTRATION OF FENCING CONTRACTORS:**

**117.9.1 Work requiring City of Aurora registered fencing contractor:** Constructing, erecting, installing, repairing or enlarging a fence for which a permit is required by this code. This registration requirement shall not apply to the property owner serving as his own fencing contractor.

**117.9.2 Qualifications:** Completion of registration application and in good standing with the City of Aurora.

**117.10 REGISTRATION OF PRIVATE PROPERTY PAVING CONTRACTORS:**

**117.10.1 Work requiring City of Aurora registered private property paving contractor:** Installing, superintending, maintaining or repairing any paving on private property for which a permit is required by this code. This registration requirement shall not apply to the property owner serving as his own private property paving contractor.

**117.10.2 Qualifications:** Completion of registration application and in good standing with the City of Aurora.

**117.11 REGISTRATION OF ALARM CONTRACTORS:**

**117.11.1 Work requiring City of Aurora Registered Alarm Contractor:** Installing, superintending, maintaining or repairing any fire alarm system covered by this code.

**117.11.2 Qualification for registration:** Registration shall be issued to those individuals, partnerships, corporations, business trusts, limited liability companies, or other legal entities upon verification of good standing of State of Illinois Private Alarm Contractor or Private Alarm Contractor Agency License.

**117.11.2.1 Fee:** Per State Law Fire Alarm Contractor registrations shall be issued at no charge.

**CHAPTER 2**

The following Definitions shall be added/modified in SECTION 202 DEFINITIONS:

**Building Official.** The Building Official shall be the Director of the Building & Permits and his designees. All City employees are hereby designees of the Building Official. The Building Official shall cooperate with the Fire Chief and the Fire Marshal.

**Fire Code Official.** The Fire Code Official for construction and remodeling permits shall be the Director of the Building & Permits and his designees. All City employees are hereby designees of the Building-Fire Code Official. The Fire Code Official shall cooperate with the Fire Chief and the Fire Marshal. The Fire Code Official for operational permits and existing structures shall be the Fire Marshal and his designees. The Fire Code Official shall cooperate with the Fire Chief and the Building Code Official.

~~Non flammable building construction. In projects requesting building permits prior to the City of Aurora's final acceptance of utilities, the term, "non flammable building construction" shall be defined as non-combustible materials. In addition, the Building Official may approve the following:~~

~~(1) Construction materials having a (Class A) flame spread rating less than 25 per ASTM E 84 shall be permitted.~~

~~(2) Foundation insulation with a higher flame spread rating shall be permitted, but shall be concealed with non-combustibles as soon as permitted by inspection process.~~

~~(3) Combustible materials completely enclosed in non-combustible construction (i.e. insulated precast panels) shall be permitted.~~

**CHAPTER 4**

The following Table 412.4.6 references shall be amended as indicated. Balance of the table shall remain unchanged:

Maximum Single Fire Area, Sq. Ft	Type of Construction								
	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB
Change <del>≥40,001</del> to: ≥ 50,001	Group I	Group I	Group I	Group I	Group I	Group I	Group I	Group I	Group I
Add: 50,000	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II	Group II

Table 412.4.6 footnotes shall be amended as indicated;

a. Aircraft hangars with door height greater than ~~32-38~~ feet shall be provided with fire suppression for a Group I hangar regardless of maximum fire area.

**CHAPTER 5**

Table 504.4 shall be partially amended as follows. References to allowable stories in New Non-Sprinklered buildings shall additionally be limited by the provisions of section 903.1.3.

Table ~~503-504.4506.2~~ shall be partially amended as follows. Balance of the table shall remain unchanged:

**Commented [Aurora36]:** We condition permits on an as needed basis do not need this codified.

**Commented [Aurora37]:** Airport provisions check DuPage

•412.4.6 Fire suppression. Delete this section in its entirety and substitute the following new language:  
"412.4.6 Fire suppression. Any airplane hangar, which exceeds either of the following limitations, shall comply with NFPA 409 (Standard on Aircraft Hangars) - 2011 Edition:  
1. A single fire area more than 50,000 square feet in area.  
2. A hangar door greater than 33 feet in height.  
Exception: Group II hangars, as defined in NFPA 409, storing private aircraft with or without major maintenance or overhaul are exempt from foam suppression requirements."

**Commented [Aurora38]:**

Increase tail height to allow a 737-400 and 737-500 (36.6ft) as the fuel capacity in pounds and gallons is less than a Bombardier Global Express plane with a tail height of 25.5.

Next tail height threshold would be 42 for a 737-BBJ but this planes fuel capacity is greater than ALL planes with a tail height of less than 28 ft (the original ICC threshold)

Here is West Chicago's code 2017 (reference 2015 IBC)

•412.4.6 Fire suppression. Delete this section in its entirety and substitute the following new language:  
"412.4.6 Fire suppression. Any airplane hangar, which exceeds either of the following limitations, shall comply with NFPA 409 (Standard on Aircraft Hangars) - 2011 Edition:  
1. A single fire area more than 50,000 square feet in area.  
2. A hangar door greater than 33 feet in height.  
Exception: Group II hangars, as defined in NFPA 409, storing private aircraft with or without major maintenance or overhaul are exempt from foam suppression requirements."

Use Group	SEE FOOTNOTES	Concrete		Steel		Wood/Masonry		Timber	Wood	
		TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V	
		A	B	A	B	A	B	HT	A	B
R-1	NS <sup>d,h</sup>	UL	11	4	4	4NP	4NP	4NP	3NP	2NP
	S13R	4	4						4NP	3NP
	S	UL	12	5	5	5NP	5NP	5NP	4NP	3NP

NP = Not Permitted

**Table 508.2.5509 Incidental Accessory Occupancy Uses:** shall be partially amended as follows. Balance of the table shall remain unchanged:

**References to:** Rooms containing fire pumps shall be amended to read: Rooms containing fire pumps, riser areas and/or sprinkler control valve areas.

ROOM OR AREA	SEPARATION AND/OR PROTECTION
Rooms containing fire pumps, riser areas and or sprinkler control valve areas.	<ul style="list-style-type: none"> <li>2 hours in high-rise buildings.</li> <li>In non high-rise buildings 2 hours; OR 1 hour and provide automatic sprinkler system throughout the building.</li> </ul>

Section 509 shall be amended as follows:

Delete Subsection 509.5.

## CHAPTER 9

Subsections of Section 903.1 shall be added as follows:

**903.1.2 New Building Square footage thresholds:** Except for one and two family dwellings, an automatic sprinkler system shall be required for all use groups where fire areas exceed 12,000 square feet. For fire areas under 12,000 square feet, the section 903.2 use specific code text square footage thresholds shall still apply.

**903.1.3 New Building Height thresholds:** Except for one and two family dwellings, an automatic sprinkler system shall be required for all use groups where building stories exceed two stories, and mixed use group buildings, with one use above a different use, where the building stories exceed one story. For buildings under two stories, the IBC Table 504.4 use specific code text number of story thresholds shall still apply.

**903.1.4 Sprinkler systems when required for multi-tenant buildings:** shall be provided with a tenant zoned flow switch and tampered control valve mounted at no more than 5 feet above finished floor and as accepted by the fire code official.

Subsections of Section 903.2 shall be modified as follows:

Subsections of Section 903.2 shall be modified as follows:

**903.2.1.1 Group A-1...**

1. The fire area exceeds 12,000 5,000 square feet.

**903.2.1.3 Group A-3...**

1. The fire area exceeds 12,000 5,000 square feet.

**903.2.1.4 Group A-4...**

1. The fire area exceeds 12,000 5,000 square feet.

**903.2.2 Group B** An automatic sprinkler system shall be installed throughout; all Group B uses in which a fire area excess of 5,000 square feet. Additionally, an automatic sprinkler system shall be installed throughout all fire areas containing a Group B ambulatory health care facility when either of the following conditions exist at any time:...

**903.2.3 Group E...**

1. Throughout all Group E fire areas greater than 12,000 5,000 square feet in area;

**903.2.4 Group F-1...**

1. A group F-1 fire area exceeds 12,000 5,000 square feet.

**903.2.7 Group M...**

1. A group M fire area exceeds 12,000 5,000 square feet.

**903.2.8 Group R...**

Add 903.2.8.1 NOTE: Townhomes; and One and two family dwellings shall be required to be sprinklered per International Residential Code - R313.

**903.2.9 Group S-1...**

1. A group S-1 fire area exceeds 12,000 5,000 square feet.

**903.2.9.1 Group S-1 Repair garages...**

**Commented [Aurora39]:** After meeting with Fire staff recommends the following threshold modifications.

**Commented [Aurora40]:** After meeting with Fire staff recommends the following threshold modifications.

**Commented [Aurora41]:** After meeting with Fire staff recommends the following threshold modifications.

**Commented [Aurora42]:** Back to 12,000sf, 300 occupants or Multiplex theater, or other than level of exit discharge

**Commented [Aurora43]:** Back to 12,000sf, 300 occupants or other than level of exit discharge

**Commented [Aurora44]:** Ambulatory care is straight from the code

**Commented [Aurora45]:** Back to 12k and below exit of level discharge

**Commented [Aurora46]:** Back to 12k and 4 stories, and exceeding 24,000 total sf all floors and >2500sf mattresses or woodworking

**Commented [Aurora47]:** Dev. Services would like to eliminate all of these reduced Sprinkler Thresholds.

**Commented [Aurora48]:** Back to 12k, 4stories, 24k total sf all floors, and upholstered furniture or mattress exceeding 5k OR HIGH PILED Storage.

**Commented [Aurora49]:** Discuss within the IRC adoption

**Commented [Aurora50]:** Back to 12k, 4stories, total sf exceeds 24k, Commercial motor vehicles exceeding 5k, Upholstered furniture or mattress storage exceeding 5k.

1. A group S 1 repair garage fire area exceeds 10,000 5,000 square feet.
2. Deleted.

**903.2.10 Group S-2 enclosed parking garages...**

1. A group S 1 repair garage fire area exceeds 10,000 5,000 square feet.

**Subsection 903.3 shall be modified by adding:****Subsection 903.3.1.2 NFPA 13R sprinkler:**

**Exception 1.** Group R buildings of Type 3, Type 4 or Type 5 construction must be sprinklered in accordance with Section 903.3.1.1 and shall retain the sprinkler protection of Balconies and Decks in section 903.3.1.2.1.

**Subsection 903.4 shall be changed by deleting the following:**

903.4 Exception 3 and Exception 6

**Subsection 905.3 Required installations shall be modified as follows:**

**905.3 Standpipe systems** shall be installed where required by Sections 905.3.1 through 905.3.8-9 and in the locations indicated in Sections 905.4, 905.5 and 905.6. Standpipe systems are allowed to be combined with automatic sprinkler systems.

**The following subsection shall be added:**

**905.3.8-9** Access to Interior of Buildings. Class 1 standpipes shall be installed at access doors and interior locations of non-sprinklered buildings where attack hoses cannot reach all portions of the interior of the building within 150 feet or sprinklered buildings where attack hoses cannot reach all portions of the interior of the building within 200 feet.

**Subsection 905.4 shall be modified as follows:****Item 7. Shall be added to Subsection 905.4 Location of Class 1 standpipe hose connections as follows:**

7. Where all interior locations of a non-sprinklered building cannot be reached with 150 feet of attack hose lay from an access door or all interior locations of a sprinklered building cannot be reached with 200 feet of attack hose lay from an access door, an interior standpipe system which is connected to a public water system and which is equipped with a fire department connection will be required at the access door and at points within the building within 150 feet hose lay of the access door and then 150 feet hose lay standpipe to standpipe within a non-sprinklered building; ~~or OR~~ within 200 feet hose lay of the access door and then 200 feet hose lay standpipe to standpipe within a sprinklered building.

**Subsection 905.9 shall be changed by deleting the following:**

Exception 2.

**Subsection 907.1.3.1 shall be added:**

907.1.3.1 Where a protected/rated sprinkler riser room exists the fire alarm control panel shall be located within.

**Subsection 907.2.9.1 shall be changed to read as follows:**

- 907.2.9.1(1.) Any dwelling unit or sleeping unit is located one or more stories above the lowest level of exit discharge.
- 907.2.9.1(3.) The building contains more than 12 dwelling units or sleeping units.

907.2.9.1 Exceptions 1 & 3 shall be deleted.

**907.3.1 Duct Smoke Detectors.** Exception #1 shall be deleted.

~~910.1 Exception 2 add manual smoke exhaust system~~

**912.5 Backflow Protection.** Shall be changed as follows:

The buildings and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section and the State of Illinois Plumbing Code.

**913.4 Valve supervision.** Shall be changed as follows:

Exceptions 2 through 4 are deleted.

**CHAPTER 10****The following subsection shall be added:****Section 1008.1.11 Exterior Door Hardware**

~~1008.1.11.1 Exterior door hinges. Outside hinges on all exterior doors shall be provided with non-removable pins when using pin type hinges, and/or the center hinge shall have a steel dowel projecting a minimum of three-quarter inch from one plate into the opposite plate of the hinge.~~

~~1008.1.11.1.1 Means of egress doorways. For the purpose of this section, entrance doors to individual units in Use Groups R-1 and R-2 shall be considered exterior doors.~~

~~1008.1.11.1.2 Exterior door frames. All exterior doorframes shall be established with high security strike plates utilizing two to three inch screws.~~

~~1008.1.11.1.3 Exterior door jambs. In swinging exterior doors shall have rabbeted jambs. Jambs for all doors shall be constructed or protected so as to prevent violation of the function of the strike.~~

**CHAPTER 11****The following subsection shall be added:**

~~Section 1107.6.2.3~~ **1107.6.2 Additional Requirements:** These Additional accessibility appurtenances are requirements for all R-2 dwelling units:

**Commented [Aurora51]:** 12k or below R-3 uses OR Commercial Vehicle parking garage of 5K.

**Commented [Aurora52]:** 2015 text change

**Commented [Aurora53]:** We get challenged on this provision a great deal

**Commented [Aurora54]:** Clarifying language if we retain this

**Commented [Aurora55]:** Add as the hose lays.

**Commented [Aurora56]:** We get challenged on this provision a great deal

**Commented [Aurora57]:** Subsection 907.2.9.3 shall be changed to read as follows:  
907.2.9.3.3 Exception shall be deleted.

I don't follow Herman's notes here – no smoke det when outside makes sense.

**Commented [Aurora58]:** Manual system not needed anymore

**Commented [Aurora59]:** Do we need to add an exterior lounge provisions so we do not have to assume they will exit back into the building. 1028 related and 1005 related

**Commented [Aurora60]:** Obsolete requirements

**Section 1107.6.2.3.11. In-unit laundry:**

Space and all required connections for in-unit laundry (both washer and dryer) shall be provided in all dwelling units in all new structures and shall be arranged to provide a minimum of Type B unit accessible approach per ANSI A117.1.

**Section 1107.6.2.3.22. Dishwasher:**

Space and all required connections for a dishwasher shall be provided in all dwelling units in all new structures and shall be arranged to provide a minimum of Type B unit accessible approach per ANSI A117.1.

**CHAPTER 12**

The following subsection shall be added to Section 1207.2:

**1207.2.2 Airborne sound in Hotel and R-1 uses:**

Sound transmission class for 1207.2 shall be modified to ... (STC) of not less than 55 (50 if field tested) for airborne noise when tested in accordance with ASTM E 90.

**1207.2.3 Airborne sound in R-2 uses:**

Sound transmission class for 1207.2 in new structures shall be modified to ... (STC) of not less than 60 (55 if field tested) for air-borne noise when tested in accordance with ASTM E 90. The STC analysis shall not include any finish material (wall-coverings or flooring treatments).

The following subsection shall be added to Section 1207.3:

**1207.3.1 Structure-borne sound in R-2 uses:**

Sound transmission class for 1207.3 in new structures shall be modified to... impact insulation Class (IIC) of not less than ~~60-58~~ **55-53** if field tested) when tested in accordance with ASTM E 492. The IIC analysis shall not include any finish material (wall-coverings or flooring treatments).

**1207.3.1.1 Floor-Ceiling assemblies:**

Floor-Ceiling assemblies shall consist of a minimum of 1½" of Gypcrete or concrete (lightweight or normal weight) to mitigate low frequency structure-borne sound transmission.

**1207.3.1.2 Unit separations and corridor assemblies:**

Unit separations and corridor assemblies shall consist of a minimum of two layers of 1" Gypsum shaft liner isolated by ¾" air space from the stud walls on each side of the assembly OR 4 inches of CMU (to mitigate low frequency structure-borne sound transmission).

**1207.3.1.3-1 Stair structures:**

Common Stair structures shall be steel staircases using concrete filled metal pan stairs (to mitigate low frequency structure-borne sound transmission).

**Commented [Aurora61]:** 60 proved to be a quantum leap from the 50 minimum in the code. Upon petition we've allowed 58 in our current R-2 buildings and this has proved effective.

**Commented [Aurora62]:** Proved unnecessary at Station Blvd developments.

**Commented [Aurora63]:** Reconsider due to challenges from Station Blvd.

**CHAPTER 14**

The following subsection shall be added to Section 1404.1:

**1404.1.1 Exterior Material in R-1 & R-2 Uses:**

Unless otherwise approved by a development agreement, in all Use Group R-1, and in R-2 buildings with common corridors, ~~aside from glazing materials,~~ a minimum of 80% of all elevations of the building shall consist of an exterior finish material equivalent or better in performance than a nominal 4" wythe of clay unit masonry - face brick (class SW) when tested for all of the following:

1. impact resistance,
2. fire resistance of exterior finish material,
3. And isolation from street noise using sound transmission coefficients.

Determination of equivalency shall be at the sole discretion of the Chief Development Services Officer or his designee. Acceptable testing methods for equivalents shall use applicable testing standards from referenced testing agencies as outlined in Chapter 35 Referenced Standards of this code.

**Commented [Aurora64]:** Clarification if we retain

~~The following subsections shall be added to Section 1408:~~

~~**1408.1.1 Exterior Insulation Finish Systems EIFS**~~

~~New EIFS systems when permitted shall be installed with the manufacturers recommended drainage system/board. New EIFS~~

~~Systems shall not be installed in contact with wood sheathing or structural members.~~

~~**1408.1.2 Exterior Insulation Finish Systems EIFS for new structures.**~~

~~EIFS systems shall not be installed as part of a wood framed Building Thermal Envelope wall (as defined in the IECC). EIFS systems may be used if isolated from the Building Thermal Envelope. EIFS system isolation from a complete weather resistant Building Thermal Envelope wall must be achieved by a minimum of 5/8" vented furring space and the isolation system must be found acceptable to the building official.~~

~~**1408.1.3 Exterior Insulation Finish Systems EIFS for additions to existing structures.**~~

~~In order to match existing details, New EIFS with drainage system shall be permitted as part of a wood framed Building Thermal Envelope wall (as defined in the IECC). The new EIFS system shall not be installed in contact with wood sheathing or structural members.~~

~~**1408.1.4 Exterior Insulation Finish Systems EIFS for repairs.**~~

**Commented [Aurora65]:** This does discourages many modern materials which we might otherwise determine we'd be happy

**Commented [Aurora66]:** Staff feels that EIFS details and required special inspections have improved over the years. Our attempt at dictating installations methods proved to violate installation warranties and new industry standards even in the limited instances when we were permitting.

**Repairs to existing EIFS systems on wood shall be permitted to be repaired provided the damage is limited to less than 50% of the EIFS area.**

#### CHAPTER 17

**The following subsection shall be modified as follows; Section 1704.4:**

**1704.14** Where permitted EIFS installations shall be required to provide special inspections. Additionally, a manufacturer's inspection of certification shall be provided to the owner and shall be kept for inspection upon request.

**The following Section 1704.1705.17 shall be added/modified:**

**1704.17 Penetrations in Fire-Resistant Rated Assemblies:** Special inspections of penetrations of fire-resistant rated assemblies shall be inspected by an approved third-party inspection agency and/or certified by the manufacturer. Certifications shall be presented to the City prior to insulation and upon completion of the fire-rated assemblies. **1705.17 Fire-resistant penetrations and joints.** In high-rise buildings, R-1 and R-2 buildings or in buildings assigned to Risk Category III or IV, special inspections for through-penetrations, membrane penetration firestops, fire-resistant joint systems and perimeter fire barrier systems that are tested and listed in accordance with Sections 714.3.1.2, 714.4.2, 715.3 and 715.4 shall be in accordance with Section 1705.17.1 or 1705.17.2.

**Commented [Aurora67]:** Code now required Special inspections of the EIFS 1705.16 OR the liquid applied water resistive barrier prior to EIFS installation. 1705.16.1

**Commented [Aurora68]:** Required by code in High Rise and Risk Category III or IV now. Need to modify if we keep.

#### CHAPTER 18

**The following subsection shall be added to Section 1809.5:**

**1809.5.1 Frost protection:** The frost line for this locality Aurora, IL shall be assumed to be three (3) feet six (6) inches below the finished ground grade.

#### CHAPTER 21

**The following subsection shall be modified to read Section 2113.9.1:**

**2113.9.1 Spark arrestors:** All solid fuel burning appliance flues shall be equipped with a spark arrester, and where spark arrestors are otherwise installed, shall meet all of the following requirements:

**Commented [Aurora69]:** Obsolete

#### CHAPTER 27

**The following subsection shall be added to section 2701.1:**

**2701.1.1 All work requiring an electrical permit** shall meet all requirements of the Aurora Electrical Ordinance and this ordinance, whichever is more restrictive. [See City of Aurora Electrical Ordinance.]

**2701.1.2 Electrical services for New R-2 apartment uses/buildings.**

Shall be served with an independently metered service per dwelling unit.

#### CHAPTER 28

**The following subsection shall be added to section 2801.1**

**2801.1.1 Natural Gas services for New R-2 apartment uses/buildings:**

Shall be served with an independently metered service per dwelling unit.

#### CHAPTER 29 NON-PREEMPTED PLUMBING RELATED APPURTENANCES AND ACCESSORIES

**The last sentence of the of Section 2901.1 shall be stricken:**

2901.1 ... Private sewage disposal systems shall conform to the International Private Sewage Disposal Code.

**The following subsections shall be added to Section 2901.1:**

**2901.1.1 All State of Illinois defined Plumbing work** shall conform to the current edition of the Illinois State Plumbing Code, and the provisions of this code, whichever is more restrictive. For items not covered preempted in the Illinois State Plumbing Code, from solely the following sections of the 2015 International Plumbing code shall apply be applicable:

- The following parts of Section 301 General
  - o 301.6 Prohibited locations (elevator related) and
  - o 301.7 Conflicts (with MFR instructions)
- Section 305 Protection of pipes and plumbing system components.
- Section 405.3.4 and 405.3.5 Water closet and Urinal partitions,
  - o Section 712 Sumps and Ejectors for sumps not handling sewage
- Chapter 11 Storm Drainage
  - o Note: Local storm sump discharge provisions in section 2901.1.3
- Chapter 12 Special Piping and Storage Systems (Medical gasses and Oxygen systems)

**Commented [Aurora70]:** This was suggested by PB&FCC 06 DEC 17

**2901.1.2 Domestic water services for New R-2 apartment uses/buildings:**

Shall be served with an independently and privately metered service per dwelling unit.

#### CHAPTER 30

**The following subsections shall be added to Section 3000:**

**3000.3001.2 Referenced Standards** to be as stringent as, and comply with current Illinois Elevator Safety Act and its Rules. For private residential conveyance application, the Act does not apply; however, the IBC code shall apply for new installation, permits, final acceptance. For applications not covered by the Illinois Elevator Safety Act, those conveyance applications shall be covered

under the IBC code by the AHJ for new installation, permits, final acceptance, periodic inspections and testing, unsafe conditions, power to seal equipment, put conveyance out of service, and certificate compliance as well as owner / agent responsibility for contractor, maintenance, accident/injury responsibility

**Referenced Standard from IBC 2015:** Safety Code for Elevators and Escalators (ASME A17.1), Performance Based Safety Code for Elevators and Escalators (A17.7), Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A18.1), Safety Standard for Belt Manlifts (A90.1), Safety Standard for Conveyors and Related Equipment (B20.1)

**Referenced Standards from (225 ILCS 312):** Safety Code for Elevators and Escalators (ASME A17.1), the Standard for the Qualification of Elevator Inspectors (ASME QEI-1), the Automated People Mover Standards (ANSI/ASCE/T&D 21), and the Safety Standard for Platform Lifts and Stairway Chairlifts (ASME A18.1).

**3001.3 Accessibility** Passenger elevators ~~required to be accessible or to serve as part of an accessible means of egress by Chapter 11~~ shall conform to ICC A117.1 shall comply with Sections 1009 and 1109.7, ICC A117.1 and -the Illinois Accessibility Code (IAC).

**3002.4 Elevator Car to Accommodate Ambulance Stretcher:** ~~Not inclusive of platform or LULA lifts, where full sized elevators are provided in NEW buildings -or buildings undertaking a Level III alteration-, not fewer than one elevator, shall be provided for fire department emergency access to all floors regardless of rise. Such~~The elevator car shall be of such size and arrangement to accommodate a minimum 24 inch by 84 inch ambulance stretcher in the horizontal open position and shall be identified by the International Symbol for emergency medical services (Star of Life). The symbol shall not be less than 3 x 3 inches high and wide (76 mm x 76 mm) and shall be placed inside on both sides of the main lobby hoistway door frame.

**3002.4.1 Exemption:** When in an existing building, and in the opinion of the Code Official ~~and Fire Chief~~, the new elevator shaft size poses a structure related hardship; the Building Official shall be authorized to ~~permit an accessible elevator which would accommodate an ambulance stretcher~~waive this requirement when not required by the State or the ICC ~~adoption code text~~.

**3003.2 Fire Fighters Emergency Operation**—elevators shall be provided with Phase 1 emergency recall operation and Phase 2 emergency in car operation in accordance with ASME A17.1 and NFPA 72.

**3003.3 Standardized fire service elevator keys:** All elevators shall be equipped to operate with a standardized fire service elevator key in accordance with the International Fire Code for new and modernized elevators only

**3004.4 Personnel and material hoists:** Personnel and material hoists shall be designed utilizing an approved method that accounts for the conditions imposed during the intended operation of the hoist device. The design shall include, but is not limited to, anticipated loads, structural stability, impact, vibration, stresses and seismic restraint. The design shall account for the construction, installation, operation and inspection of the hoist tower, car, machinery and control equipment, guide members and hoisting mechanism. Additionally, the design of personnel hoists shall include provisions for field testing and maintenance that will demonstrate that the hoist device functions in accordance with the design. Field tests shall be conducted upon the completion of an installation or following a jump, a major alteration of a personnel hoist. All miscellaneous hoisting and elevating equipment shall be subjected to tests and inspections as required by the AHJ to ensure safe operation.

**3005.1 Access:** An approved means of access shall be provided to elevator machine rooms, control rooms, control spaces and machinery spaces. This means of access is not to be used as a passage way through the space to other areas of the building.

**3005.4 Machine rooms, control rooms, machinery spaces, and control spaces:**  
Delete exception #2

**3009 Certificate of Compliance:**

Section shall be added **3009-Certificate of Compliance:**

**3009.1 Unlawful Use:** The operation of all equipment governed by the provisions of this chapter and hereafter installed, relocated or altered shall be unlawful by persons other than the installer until such equipment has been inspected and tested as herein required and a final certificate of compliance has been issued by the AHJ.

**3009.2 Posting Certificates of Compliance:** The owner or lessee shall post the current-issued certificate of compliance in a conspicuous place inside the conveyance. A copy of the current issued certificate is acceptable. Please refer to Illinois Elevator Safety Act.

~~3006.1 An approved means of access shall be provided to elevator machine rooms and overhead machinery equipment spaces. This means is not to be used as a passage way through the machine room to other areas of the building or roof.~~

~~3007.8 Existing Elevators: All Existing Elevators to comply with ASME 2005 17.3, Safety Code for existing elevators and escalators.~~

~~3009.0 Maintenance and Accidents:~~

**Commented [Aurora71]:** Language recommended from TEIS Concurrence from staff.

**Commented [Aurora72]:** TEIS recommendation **ADD:** Illinois Accessibility Code (IAC)

**Commented [Aurora73]:** Staff Suggestion for Dec 13 Meeting

**Commented [Aurora74]:** **Note:** As per IBC, this is required for buildings which are 4 floors or higher. This change would be required regardless of floors.

TEIS Recommendation on top of Aurora Fire amendment.

**Commented [Aurora75]:** Retains and clarifies this Aurora Passage for existing building relief when needed.

**Commented [Aurora76]:** TEIS Recommendation Standardized fire service elevator keys **ADD:** after International Fire Code: for new and modernized elevators only

**Commented [Aurora77]:** TEIS Recommendation Personnel and material hoists  
**ADD:** in last sentence, add "a jump" before "a major alteration"  
**ADD NEW SENTENCE:** All miscellaneous hoisting and elevating equipment shall be subjected to tests and inspections as required by the AHJ to ensure safe operation.

**Commented [Aurora78]:** Access  
TEIS Recommendation **ADD:** This means is not to be used as a passage way through the space to other areas of the building.

**Commented [Aurora79]:** TEIS Recommendation Machine rooms, control rooms, machinery spaces, and control spaces.  
**STRIKE:** Exception #2

**Commented [Aurora80]:** TEIS Recommendation **NEW SECTION**

**Commented [Aurora81]:** Obsolete passages and code section numbers

**3009.1 Owner Responsibility:** The owner or the owner's legal agent for the building in which the equipment is located shall be responsible for the care, maintenance and safe operation of all equipment covered by this article after the installation thereof and acceptance by such owner or agent. The owner or legal agent shall make or cause to be made all periodic tests and inspections, and shall maintain all equipment in a safe operating condition, as required by this article.

**3009.2 Contractor Responsibility:** The person installing any device covered by this article shall make all acceptance tests and shall be responsible for the care and safe operation of such equipment during its construction and until temporarily or finally accepted by the AHJ (A authority Having Jurisdiction) Elevator Inspector.

**3009.3 Maintenance Items:** All operating and electrical parts and accessory equipment or devices subject to this article shall be maintained in a safe operating condition. The maintenance of elevators, dumbwaiters and escalators shall conform to ASME A17.1 listed in Appendix A.

**3009.4 Unsafe Conditions:** If, upon inspection, any equipment covered in this article is found to be in an unsafe condition, or not in accordance with the provisions of this code, the AHJ shall thereupon serve a written notice of such finding upon the building owner or lessee, stating the time when recommended repairs or changes shall be completed. After the service of such notice, it shall be the duty of the owner to proceed within the time allowed to make such repairs or changes as are necessary to place the equipment in a safe condition. It shall be unlawful to operate such equipment after the date stated in the notice unless such recommended repairs or changes have been made and the equipment has been approved, or unless an extension of time has been secured from the AHJ in writing.

**3009.4.1 Power to seal equipment:** In cases of emergency, the AHJ, in addition to any other penalties herein provided, shall have the power to seal out of service any device or equipment covered by this article when, in the opinion of the AHJ, the condition of the device is such that the device is rendered unsafe for operation; or for willful failure to comply with recommendations and orders.

**3009.4.2 Notice of sealing out of service:** Before sealing any device out of service, the AHJ, except in case of emergency, shall serve written notice upon the building owner or lessee stating intention to seal the equipment out of service and the reasons therefore.

**3009.4.3 Unlawful to remove seal:** Any device sealed out of service by the AHJ shall be plainly marked with a sign or tag indicating the reason for such sealing. Any tampering with, defacing or removal of the sign, tag or seal without approval shall constitute a violation of this article.

**3009.5 Accidents reported and recorded:** The owner of the building shall immediately notify the AHJ of every accident involving personal injury or damage to apparatus on, about or in connection with any equipment covered by this article, and shall afford the AHJ every facility for investigating such accident. When an accident involves the failure, breakage, damage or destruction of any part of the apparatus or mechanism, it shall be unlawful to use such device until after an examination by the AHJ is made and approval of the equipment for continued use is granted.

**3009.6 Removal of damaged parts:** It shall be unlawful to remove from the premises any part of the damaged construction or operating mechanism of elevators, or other equipment subject to the provisions of this article, until permission to do so has been granted by the AHJ.

**3010.0 Operations and Certificates:**

**3010.1** The operation of all equipment governed by the provisions of this chapter and hereafter installed, relocated or altered shall be unlawful by persons other than the installer until such equipment has been inspected and tested as herein required and a final certificate of compliance has been issued by the AHJ.

**3010.2 Posting Certificates of Compliance:** The owner or lessee shall post the current issued certificate of compliance in a conspicuous place inside the elevator.

**3011 Construction Documents and Permits:**

**3011.1 Application:** The application for a permit shall be accompanied by construction documents in sufficient detail and indicating the location of the machinery room and equipment to be installed, relocated or altered; and all supporting structural members, including foundations. The construction documents shall indicate all materials to be used and all loads to be supported or conveyed. Documents to be reviewed and approved before permit are issued.

**3011.2 Permits:** Equipment or devices subject to the provisions of this code shall not be constructed, installed, relocated or altered unless a permit has been received from the AHJ before the work is commenced. A copy of such permit shall be kept at the construction site at all times while the work is in progress.

**3012 Tests and Inspections:**

**3012.1 General:** All equipment and devices covered by the provisions of this code shall be subjected to acceptance and maintenance tests and periodic inspections as required herein.

**3012.2 Acceptance tests:** Acceptance tests and inspections shall be required on all new, relocated and altered equipment subject to the provisions of this chapter. Tests and inspections shall be of such a nature as to determine whether the entire installation is designed, constructed and installed in compliance with this code, and shall include all parts of the equipment and machinery. In addition, Full Load Tests are to be done on all equipment. All such tests shall be made in compliance with the requirements of Section 8.10 and in the presence of the AHJ, or by an approved agency for the AHJ and by the person installing such equipment.

**Commented [Aurora82]:** The operation of all equipment governed by the provisions of this chapter and hereafter installed, relocated or altered shall be unlawful by persons other than the installer until such equipment has been inspected and tested as herein required and a final certificate of compliance has been issued by the AHJ.

**Commented [Aurora83]: Posting Certificates of Compliance:** The owner or lessee shall post the current-issued certificate of compliance in a conspicuous place inside the conveyance. A copy of the current issued certificate is acceptable. Please refer to Illinois Elevator Safety Act.

~~3012.3 Periodic tests and periodic inspections: Periodic tests shall be required on all new and existing power elevators, and periodic inspections shall be made of all new and existing equipment subject to the provisions of this chapter.~~

~~3012.3.1 Periodic tests: Periodic tests shall be made by the AHJ, or by an approved agency, and shall be made at the expense and responsibility of the owner. Where such tests are not made by the AHJ, the approved agency shall submit a detailed report of the tests to the AHJ on approved forms not more than 30 days after the completion of the tests.~~

~~3012.3.2 Periodic inspections: Periodic inspections shall be made by the AHJ or by an approved agency. Where such inspections are not made by the AHJ, the approved agency shall submit a detailed report of the inspection to the AHJ on approved forms not more than 30 days after completion of the inspection.~~

~~3012.3.3 Frequency of tests and inspections: Tests and inspections shall be conducted at annual intervals and then as set forth in ASME A17.1 listed in Chapter 35 for elevators, escalators, dumbwaiters and moving walks.~~

#### ~~3013 Miscellaneous Equipment~~

~~3013.1 Miscellaneous hoisting and elevating equipment: All miscellaneous hoisting and elevating equipment shall be subjected to tests and inspections as required by the AHJ to ensure safe operation.~~

~~3013.2 Conveyors: Conveyors and related equipment shall be inspected and tested in accordance with ASME B20.1 listed in Chapter 35 and Sec 3005.4A regarding personal hoists.~~

#### CHAPTER 33

The following subsection shall be added to Section 3303.6:

**3303.6.1 Service connections:** Before a structure is demolished or removed, the owner or agent shall notify all utilities having service connections within the structure such as water, electric, gas, sewer and other connections. Water and sewer connections shall be removed or sealed and plugged in accordance with the requirements of the city's sewer and water maintenance department. City meters shall be returned to water and sewer department or two hundred percent of the cost of a replacement meter plus water usage assumptions and fines may be charged.

#### CHAPTER 34

~~The following subsection shall be added to Section 3412.1:~~

~~3412.1.1 City of Aurora modifications to this code shall not be used in considering chapter 34 equivalency. All numbers and data used in section 3412 evaluations shall come straight from the unmodified ICC code text.~~

#### CHAPTER 35 REFERENCED STANDARDS

##### NFPA Standards amendments.

The State Adopted National Fire Protection Association (NFPA) Standard No. 101 known as the Life Safety Code is hereby amended and changed in the following respects:

It is the intent that all new construction in the city or applicable new portions thereof shall conform to the minimum standards and requirements of the city building code as adopted and amended, rather than the life safety code or its referenced National Fire Protection Association Standards with the exception of:

- Those use groups regulated by State or Federal agencies utilizing the Life Safety Code. Most stringent of codes shall apply.
- When referenced directly from the International Code Series and only for the specific topic indicated in the International Code.

#### APPENDIX B

The following subsection shall be added to Section B101.1:

**B101.1.1 Application for Appeal** shall be accompanied by a court reporter fee of five hundred dollars (\$500).

#### APPENDIX K

For Electrical administrative provisions refer to the amended adoption of NEC ANNEX H. ADMINISTRATIVE PROVISIONS

~~The following subsection shall be added to Section K101:~~

~~K101.3 Any electrical installation or alteration not specifically addressed by this City electrical ordinance shall comply with the last adopted edition of the National Electrical Code published by the National Fire Protection Association, which is NFPA-70.~~

~~K101.4 NEC 2008 — ARTICLE III. Sections 12-31 through 12-100 inclusively, shall be adopted and effective 60 days after City Council adoption of the Electrical Commission's recommendations.~~

~~The following subsection shall be added to Section K102.5:~~

~~K102.5.1 Many NEC approved wiring methods are restricted, prohibited or subjected to additional requirements by this City electrical ordinance. Such ordinance supersedes the National Electrical Code wherever the two differ.~~

~~The following subsection shall be added to Section K103.1:~~

~~K103.1.1 Description of work: The application shall contain a final specification and sealed architectural and/or engineering drawings applicable to, and describing the extent of, the proposed work and its location, as well as such additional information as may be required by the Director of the Division of Building and Permits. For all public structures, industrial~~

Commented [Aurora84]: OBSOLETE language

Commented [Aurora85]: See the IEBC code: chapter 14 is the old IBC Chapter 34

uses and buildings requiring a service capacity of greater than 144 kVA, technical submissions shall be prepared and sealed by a licensed Illinois professional engineer specializing in the design of electrical systems.

**The following section shall be added K112:**

**K112 Electrical Code Appeals:** The owner of a building or structure may appeal to the electrical commission any decision of the code compliance officer/electrical in which said officer declines to grant a modification of the provisions of this electrical code ordinance covering the manner of electrical installation to be used in the erection, alteration or repair of a building or structure. An appeal may be made only when it is claimed that the intent of this electrical code ordinance or the rules promulgated thereunder have been incorrectly interpreted; or where it is claimed that the provisions of this electrical code ordinance do not fully apply; or where it is claimed that an equally good or better form of electrical installation can be used. An appeal to the Electrical Commission shall be accompanied by a five hundred dollars (\$500) processing fee and shall be made, in writing, no later than seven (7) days after receipt of the decision of the code compliance officer/electrical.

**Commented [Aurora86]:** Replaced by the NEC Annex H adoption and ammendment

## ARTICLE II. DIVISION 3. - PLUMBING CODE

Sec. 12-17.2. ~~Same--~~ Additions, insertions, deletions and changes.

**Section 106.6.2 Insert:** { See International Building Code Section 109 }

**Subsection 106.6.3 shall be changed to read as follows:**

~~106.6.3 The code official shall authorize the refunding of fees per the International Building Code Section 109.6.~~

**The following Subsection shall be changed 108.4:**

~~108.4.1 Violation Penalties shall be as prescribed in the International Building Code Section 114.4~~

**The following Subsection shall be added to section 108.5:**

~~108.5.1 Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3~~

**Subsection 109 Means of Appeals shall be deleted and the following text inserted:**

~~109.1 Appeals. Appeals to this code shall be conducted as prescribed in the adopted International Building Code.~~

**The following Subsections shall be added to replace Section 301 General:**

**301.1 Scope.** The provisions of the Illinois Plumbing Code shall govern the general regulations regarding the installation of Plumbing.

~~301.1.1 Fees, penalties and appeals when not prescribed by the State Plumbing Code shall be per IBC Chapter 01.~~

~~301.1.2 Water services shall be sized per the State of Illinois Plumbing Code. Minimum new water service size shall be 1 inch.~~

**Sections 301.2 through 301.7 shall be deleted.**

~~301.8 Public Systems Available: Variations from provisions contained in this section may be applied for by filing an application with the public works department for referral to and consideration by the city council.~~

~~301.8.1 A public water main shall be considered available to a building when the building is located within one thousand two hundred (1,200) feet of the public water main. Private wells shall not be allowed within the jurisdiction of the City of Aurora except as provided by section 48-28 of the Aurora Code of Ordinances.~~

~~301.8.2 A public sewer system shall be considered available when the nearest point of the property is located within one thousand two hundred (1,200) feet of the public sewer.~~

**Commented [Aurora87]:** Relocated to Chapter 29 of the IBC

**Subsection 305.6.1 shall be changed to read as follows:**

**305.6.1 Frost protection depths:**

~~305.6.1.1 Water service piping shall be installed below recorded frost penetration but not less than five (5) feet below grade. In climates with freezing temperatures, plumbing piping in exterior building walls or areas subjected to freezing temperatures shall be protected against freezing by insulation or heat or both. Water service piping shall be installed not less than five (5) feet below grade to top of pipe.~~

~~305.6.1.2 Sewer depth: Building sewers that connect to private sewage disposal systems shall be a minimum of twenty-four (24) inches below finished grade. Building sewers connected to public sewer disposal systems shall be a minimum of thirty-two (32) inches below grade. Measurements shall be taken at invert of pipe.~~

**Commented [Aurora88]:** Repeated in the Fox Metro and Engineering standards don't need to repeat.

Table 403.1 shall be deleted and replaced as follows:

Table 403.1 Minimum Number of Plumbing Fixtures shall be as prescribed in the Section 890, Appendix A of the Current Illinois Plumbing Code.

Section 403.2 shall be deleted in their entirety:

Section 504.6 item number 5 shall be amended as follows:

504.6 item number 5. Discharge to the floor, or to a waste receptor (floor drain).

Subsection 603.1 shall be changed to read as follows:

603.1 Size of water service pipe: The water service pipe shall be sized to supply water to the structure in the quantities and at the pressures required in this code. The minimum diameter of water service pipe shall be one (1) inch.

Section 603.2 shall be amended as follows:

603.2 Separation of water service and building sewer: Water service pipe and the building sewer shall be separated by 5-10 feet of undisturbed or compacted earth.

603.2 Exceptions shall be deleted in their entirety:

Subsection 603.2.1 shall be changed to read as follows:

603.2.1 Water service near sources of pollution: Potable water service pipes shall not be located in, under, or above cesspools, septic tanks, septic tank drainage fields, seepage pits, or gasoline storage tanks. Refer to requirements of Section 605.1 regarding soil and groundwater conditions. Where the water service pipe must cross the sewer, the bottom of the water service, within ten (10) feet of the point of crossing, shall be at least eighteen (18) inches above the top of the sewer. Water service pipe shall be at least ten (10) feet away from all gasoline storage tanks or piping.

The following materials are deleted from Table 605.3:

Table 605.3 Water Service Pipe	
Material	Standard
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 1527; ASTM D 2282
Asbestos-cement pipe	ASTM C 296
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper alloy pipe	ASTM B 42; ASTM B 302
Copper or copper alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 876; ASTM F 877; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; ASTM F 2262; CAN/CSA B137.10M
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F 1986
Ductile iron water pipe	AWWA C151; AWWA C115
Galvanized steel pipe	ASTM A 53
Polyethylene (PE) plastic pipe	ASTM D 2239; ASTM D 3035; CSA B137.1
Polyethylene (PE) plastic tubing	ASTM D 2737; CSA B137.1
Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe	ASTM F 1282; CAN/CSA B137.9
Polypropylene (PP) plastic pipe or tubing	ASTM F 2389; CSA B137.11
Polyvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241; ASTM D 2672; CSA B137.3
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

The following materials are deleted from Table 605.4:

Table 605.4 Water Distribution Pipe	
--	--

Commented [Aurora89]: Replication from City of Aurora Engineering standards and Fox Metro standards.

Commented [Aurora90]: Materials shall be per the State of Illinois Plumbing code.

Material	Standard
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe and tubing <sup>3</sup>	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper alloy pipe	ASTM B 42; ASTM B 302
Copper or copper alloy tubing (Type K, WK, L, WL, M or WM)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 876; ASTM F 877; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; ASTM F 2262; CAN/CSA B137.10M
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F 1986
Ductile iron pipe	AWWA C151/A21.51; AWWA C115/A21.15
Galvanized steel pipe	ASTM A 53
Polyethylene/aluminum/polyethylene (PE-AL-PE) composite pipe	ASTM F 1382
Polypropylene (PP) plastic pipe or tubing	ASTM F 3380; CSA B137.14
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

## Footnotes:

1. "CPVC" The use of "CPVC" shall be subject to all of the following conditions:

- (1) Use shall be limited to single family and R-2 residential buildings four (4) stories or less in height.
- (2) Use shall be limited by the applicable standards of the most current edition of the International Plumbing Code or the Illinois State Plumbing Code, whichever is more restrictive.

The following materials are deleted from Table 605.5:

**Table 605.5**  
**Pipe Fittings**

Material	Standard
Acrylonitrile butadiene styrene (ABS) plastic	ASTM D 2468
Cast iron	ASME B16.4; ASME B16.12
Chlorinated polyvinyl chloride (CPVC) plastic	ASSE 1061; ASTM D 2846; ASTM F 437; ASTM F 438; ASTM F 439; CSA B137.6
Copper or copper alloy	ASSE 1061; ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.23; ASME B16.26; ASME B16.29
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F 1986
Fittings for cross-linked polyethylene (PEX) plastic tubing	ASSE 1061; ASTM F 877; ASTM F 1807; ASTM F 1960; ASTM F 2080; ASTM F 2098; ASTM F 2159; ASTM F 2434; CSA B137.5
Gray iron and ductile iron	AWWA C110; AWWA C153
Insert fittings for polyethylene/aluminum/polyethylene (PE-AL-PE) and cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX)	ASTM F 1974; ASTM F 1381; ASTM F 1382; CAN/CSA B137.9; CAN/CSA B137.10
Malleable Galvanized iron	ASME B16.3
Metal (brass) insert fittings for polyethylene/aluminum/polyethylene (PE-AL-PE) and cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX)	ASTM F 1974
Polyethylene (PE) plastic pipe	ASTM D 2609; ASTM D 2683; ASTM D 3261; ASTM F 1055; CSA B137.1
Polypropylene (PP) plastic pipe or tubing	ASTM F 3380; CSA B137.14
Polyvinyl chloride (PVC) plastic	ASTM D 2464; ASTM D 2466; ASTM D2467; CSA B137.2; CSA B137.3
Stainless steel (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel (Type 316/316L)	ASTM A 312; ASTM A 778
Steel	ASME B16.9; ASME B16.11; ASME B16.28

“Metal Insert Fittings Utilizing a Copper Crimp Ring SDR9 (PEX) Tubing”

The following materials are deleted from Tables 702.1, 702.2, 702.3, & 702.4:

Table 702.1

## Above-ground drainage and vent pipe

Material	Standard
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including Schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid cellular core or composite wall	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1
Brass pipe	ASTM B 43
Cast iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Copper or copper alloy pipe	ASTM B 42; ASTM B 302
Copper or copper alloy tubing (Type K, L, M, or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Galvanized steel pipe	ASTM A 53
Glass pipe	ASTM C 1053
Polyolefin pipe	ASTM F 1412; CAN/CSA B181.3
Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200); and DR 24 (PS 140); with a solid, cellular core or composite wall	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
Polyvinyl chloride (PVC) plastic pipe with a 3.25 inch O.D. and a solid, cellular core or composite wall	ASTM D 2949; ASTM F 1488
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3
Stainless steel drainage systems, Types 304 and 316L	ASME A112.3.1

Table 702.2

## Underground building drainage and vent pipe

Material	Standard
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid, cellular core, or composite wall	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1
Asbestos cement pipe	ASTM C 428
Cast iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Copper or copper alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Polyolefin pipe	ASTM F 1412; CAN/CSA B181.3
Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and DR 24 (PS 140) <sup>1</sup> ; with a solid, cellular core, or composite wall	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
Polyvinyl chloride (PVC) plastic pipe with a 3.25 inch O.D. and a solid, cellular core, or composite wall <sup>1</sup>	ASTM D 2949; ASTM F 1488
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3
Stainless steel drainage systems, Type 316L	ASME A 112.3.1

Footnotes:

1. "Polyvinyl Chloride (PVC) plastic pipe shall be prohibited, except for the following standard types: ASTM (2665, 2949, F891), DWV, schedule 40 or heavier, which shall be permitted."

Table 702.3

## Building sewer pipe

Material	Standard
Acrylonitrile butadiene styrene (ABS) plastic pipe in IPS diameters, including schedule 40, DR 22 (PS 200) and DR 24 (PS 140); with a solid cellular core or composite wall	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1
Acrylonitrile butadiene styrene (ABS) plastic pipe in sewer and drain diameters, including SDR 42 (PS 20), PS 35, SDR 35 (PS 45), PS 50, PS 100, PS 140, SDR 23.5 (PS 150) and PS 200; with a solid, cellular core or composite wall	ASTM F 1488; ASTM D 2751
Asbestos cement pipe	ASTM C 428
Cast iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Concrete pipe	ASTM C14; ASTM C76; CAN/CSA A257.1M; CAN/CSA A257.2M

Copper or copper alloy tubing (Type K or L)	ASTM B 75; ASTM B 88; ASTM B 361
Polyethylene (PE) plastic pipe (SDR-PR)	ASTM F 714
Polyvinyl chloride (PVC) plastic pipe in IPS diameters, including schedule 40, DR 23 (PS 200) and DR 34 (PS 140); with a solid, cellular core or composite wall <sup>1</sup>	ASTM D 2665; ASTM F 891; ASTM F 1489
Polyvinyl chloride (PVC) plastic pipe in sewer and drain diameters, including SDR21 and SDR 26	ASTM D 3034; ASTM D 2241
Polyvinyl chloride (PVC) plastic pipe with a 3.25-inch O.D. and a solid, cellular core or composite wall <sup>2</sup>	ASTM D 2949; ASTM F 1488
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3
Stainless steel drainage systems, Types 304 and 316L	ASME A112.3.1
Vitrified clay pipe	ASTM C 4; ASTM C 700

Table 702.4  
Pipe fittings

Material	Standard
Acrylonitrile-butadiene styrene (ABS) plastic pipe in IPS diameters	ASTM D 2661; ASTM F 628; CSA B181.1
Acrylonitrile-butadiene styrene (ABS) plastic pipe in sewer and drain diameters	ASTM D 2751
Asbestos cement	ASTM C 428
Cast iron	ASME B 16.4; ASME B 16.12; ASTM A 74; ASTM A 888; CISPI 301
Copper or copper alloy	ASME B 16.15; ASME B 16.18; ASME B 16.22; ASME B 16.23; ASME B 16.26; ASME B 16.29
Glass	ASTM C 1053
Gray iron and ductile iron	AWWA C 110
Malleable iron	ASME B 16.3
Polyolefin	ASTM F 1412; CAN/CSA B181.3
Polyvinyl chloride (PVC) plastic in IPS diameters	ASTM D 2665; ASTM F 1866
Polyvinyl chloride (PVC) plastic pipe in sewer and drain diameters	ASTM D 3034
Polyvinyl chloride (PVC) plastic pipe with a 3.25-inch O.D.	ASTM D 2949
Polyvinylidene fluoride (PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3
Stainless steel drainage systems, Types 304 and 316L	ASME A 112.3.1
Steel	ASME B 16.9; ASME B 16.11; ASME B 16.28

Section 904.1 Insert: [ 12" above adjacent roofline ]

The following materials are deleted from Tables 1102.4, 1102.5 & 1102.7:

Table 1102.4  
Building storm sewer pipe

Material	Standard
Acrylonitrile-butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM D 2751; ASTM F 628; CAN/CSA B181.1; CAN/CSA B182.1
Asbestos cement pipe	ASTM C 428
Cast iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Concrete pipe	ASTM C 14; ASTM C 76; CAN/CSA A257.1M; CAN/CSA A257.2M
Copper or copper alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Polyethylene (PE) plastic pipe	ASTM F 2306/F 2306M
Polyvinyl chloride (PVC) plastic pipe (Type DWV, SDR26, SDR41, PS50 or PS100) <sup>1</sup>	ASTM D 2665; ASTM D 3034; ASTM F 891; CSA B182.4; CSA B181.2; CSA B182.2
Stainless steel drainage systems, Type 316L	ASME A112.3.1

Footnotes:

1. "Polyvinyl Chloride (PVC) plastic pipe except for the following standard types: ASTM (2665, F 891, 3034), DWV, schedule 40 or heavier, which shall be permitted."

**Table 1102.5**  
**Subsoil-drain pipe**

Material	Standard
Asbestos-cement pipe	ASTM C 508
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Polyethylene (PE) plastic pipe	ASTM F 405; CAN/CSA B182.1; CSA B182.6; CSA B182.8
Polyvinyl chloride (PVC) plastic pipe (type sewer pipe, PS25, PS50 or PS100)	ASTM D 2729; ASTM F 891; CSA B182.2; CAN/CSA B182.4
Stainless-steel drainage systems, Type 316L	ASME A 112.3.1
Vitrified-clay pipe	ASTM C 4; ASTM C 700

**Table 1102.7**  
**Pipe fittings**

Material	Standard
Acrylonitrile butadiene styrene (ABS) plastic	ASTM D 2661; ASTM D 3311; CSA B181.1
Cast-iron	ASME B16.4; ASME B16.12; ASTM A 888; CISPI 301; ASTM A 74
Coextruded composite ABS sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM D 2751
Coextruded composite ABS DWV Schedule 40 IPS pipe (solid or cellular core)	ASTM D 2661; ASTM D 3311; ASTM F 628
Coextruded composite PVC DWV Schedule 40 IPS DR, PS140, PS200 (solid or cellular core)	ASTM D 2665; ASTM D 3311; ASTM F 891
Coextruded composite PVC sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM D 3034
Copper or copper alloy	ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.23; ASME B16.26; ASME B16.29
Gray iron and ductile iron	AWWA C110
Malleable iron	ASME B16.3
Plastic, general	ASTM F 409
Polyethylene (PE) plastic pipe	ASTM F 2306/F 2306M
Polyvinyl chloride (PVC) plastic	ASTM D 2665; ASTM D 3311; ASTM F 1866
Steel	ASME B16.9; ASME B16.11; ASME B16.28
Stainless-steel drainage systems, Type 316L	ASME A 112.3.1

**The following subsections shall be added to Section 1113:**

**1113.1.5** Required sump-pit discharge piping: All sump pump discharges shall be handled in conformance with one of the following:

- (1) Discharge to the public storm sewer may occur at any time in conformance with City of Aurora Standard Specifications for Improvements.
- (2) Discharge to grade, when not prohibited above, may be permitted provided that the point of discharge is at least fifteen (15) feet from all property lines. Sump pumps shall not discharge directly into any street, sidewalk onto adjacent property, or in any manner that will flood or cause a nuisance. Sump discharge contrary to the above provisions shall be considered a violation as a public nuisance of the adopted IPMC 304 Exteriors, Roofs and Drainage subsection.

**1113.2** Sump pit required: Crawl spaces under buildings used for human habitation shall be provided with a sump pit in accordance with Section 1113. When a basement and a crawl space are provided under said buildings, only the basement must be provided with a sump pit. When a basement exists without a sump pit and a crawl space is being constructed immediately adjacent thereto, the crawl space shall not require a sump pit.

**Commented [Aurora91]:** Materials shall be per the State of Illinois Plumbing Code.

**Commented [Aurora92]:** More clearly allows enforcement using the IPMC with this reference.

**Commented [Aurora93]:** Relocated to chapter 33 of the IRC

**Commented [Aurora94]:** This is dealt with in the Int. Plumbing code Building Subdrains and pumps section see Chapter 29 of the IBC and the IRC 3007

## **ARTICLE II. DIVISION 4. – MECHANICAL CODE**

**Sec. 12-17.3** Same--Additions, insertions, deletions and changes.

The following sections of the **2009 International Mechanical Code** adopted in section 12-16 are hereby revised as follows:

**Section 106.5.2** Insert: {See International Building Code Section 109}

**Subsection 106.5.3 shall be changed to read as follows:**

106.5.3 The code official shall authorize the refunding of fees per the International Building Code Section 109.6

**The following Subsection shall be added to section 108.4:**

108.4.1 Violation Penalties shall be as prescribed in the International Building Code Section 114.4

**The following Subsection shall be added to section 108.5:**

108.5.1 Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3

**Subsection 109 Means of Appeals shall be deleted and the following text inserted:**

109.1 Appeals. Appeals to this code shall be conducted as prescribed in the adopted International Building Code.

**Subsection 401.2.1 shall be added to section 401.2 as follows:**

~~401.2.1 Natural means of ventilation shall only be permitted when approved by the code official.~~

**The following Subsections shall be added to Subsection 401.4:**

~~401.4.2.1 Outdoor Air Intake near heat sources. Outdoor air intake locations shall be a minimum of 3 feet horizontally from a source of heat or at least 10 feet vertically from a source of heat. Mechanical construction drawings shall be detailed sufficiently to determine the intake locations of all mechanical equipment.~~

**Commented [Aurora95]:** Permitted directly by section 402 now

**Commented [Aurora96]:** Covered in 2015 Code See 104.4.3

**The following Subsections shall be added to Subsection 506.3.2.5:**

~~506.3.2.5.1 Grease duct test certification. Prior to final inspection of the grease duct installation, a certified welder shall certify with signature on company letter head that the grease duct:~~

- ~~1. Has been manufactured and installed in a fully code compliant manner under his direct supervision.~~
- ~~2. Has been sealed with code compliant gasketing materials rated at 1500 degrees Fahrenheit.~~
- ~~3. Has been installed with liquid tight welds made on the external surface of the duct.~~
- ~~4. Has passed a light test as prescribed above, performed by the named certified welder.~~

**The following Subsections shall be added to Subsection 507.1.3:**

~~507.1.3.1 Multispeed grease hood fans. Multispeed grease hood fans shall be permitted only when adequate capture velocity and equipment safeguards can be demonstrated and accepted by the code official.~~

**Commented [Aurora97]:** Still Desire the certified welder?

**Commented [Aurora98]:** All provided for in the 2015 code grease duct test.

**Commented [Aurora99]:** Exception deleted in this code edition

**The following Subsections shall be added to Subsection 507.2.2:**

~~507.2.2.1 Heat and Moisture load incorporation into the HVAC System. Incorporation of heat and moisture loads of equipment into the HVAC system in lieu of a Type II hood shall be limited to those applications which can demonstrate that inclusion of these moisture loads into the HVAC would produce an energy savings vs. the installation of the Type II Hood; and then only as acceptable to the code official.~~

**Commented [Aurora100]:** Delete entirely

**The following Subsections shall be deleted 508.2 Compensating hoods:**

**Commented [Aurora101]:** Delete entirely

**The following Subsections shall be added to Subsection 602.1:**

602.1.1 Plenum. Plenums shall be clearly defined in the construction drawings ~~as a separate and distinct drawing.~~

602.1.2 Plenum Marking and Identification. Plenums shall be effectively and permanently identified with signage. Signage shall be posted prior to the first above ceiling inspections. Such identification shall:

- 602.1.2.1 Be located in accessible concealed floor or floor ceiling spaces.
- 602.1.2.2 Be repeated at intervals not exceeding 30 feet measured horizontally along walls that define the plenum.
- 602.1.2.3 Include lettering not less than ½" in height: incorporating the suggested wording:

**"THIS CAVITY IS A MECHANICAL SYSTEM PLENUM. ALL COMBUSTIBLE MATERIALS WITHIN THIS PLENUM MUST CONFORM TO IMC SECTION 602."**

**The following subsection shall be added to Section 603:**

~~603.17.3 Capped openings: all floor duct openings shall be capped by a code official approved method during construction.~~

**The following subsection shall be added to Section 901:**

901.54 ~~Any~~ penetration of the firebox area made by a gas pipe shall be sealed by mortar or other method approved by the code official.

**The following Subsections shall be added to Subsection 12109.1.1:**

~~12081210.1.1.1 Ground Water Source heat pump systems. Open loop heat pump systems which use/waste fresh ground water as a heat transfer medium are prohibited. Closed loop systems using FDA approved (food service grade) glycol brines are permitted when allowed and registered by the County and when in compliance with the City of Aurora Code of Ordinances.~~

**Commented [Aurora102]:** Specified by the IDPH through the County Health Department.

**ARTICLE II. DIVISION 5. – FUEL GAS CODE**

**Sec. 12-17.4.** ~~Same--~~Additions, insertions, deletions and changes.

The following sections of the **2009 International Fuel and Gas Code**; adopted in section 12-16 ~~are~~is hereby revised as follows:

**Section 106.6.2 Insert:** {See International Building Code Section 109}

**Subsection 106.6.3 shall be changed to read as follows:**

106.6.3 The code official shall authorize the refunding of fees per the International Building Code Section 109.6.

**The following Subsection shall be added to section 108.4:**

108.4.1 Violation Penalties shall be as prescribed in the International Building Code Section 114.4

**The following Subsection shall be added to section 108.5:**

108.5.1 Unlawful continuance fines shall be as prescribed in the International Building Code Section 115.3

**Subsection 109 Means of Appeals shall be deleted and the following text inserted:**

**109.1 Appeals.** Appeals to this code shall be conducted as prescribed in the adopted International Building Code.

**Subsection 403.4.3 Copper and ~~Brass~~Copper Alloy.** Shall be deleted

**Subsection 403.4.4 Aluminum.** Shall be deleted

**Subsection 403.5 Metallic tubing.** Shall be deleted

**The following Subsection shall be added to section ~~502.6~~503.6.11;**

**~~506.2~~503.6.11.1 B Vent support:** B vent support shall be provided every 5 feet minimum with no screw penetrations unless specifically required by the vent manufacturer ~~and/or unless then only when it can be demonstrated that the inner wall of the vent has not been penetrated.~~

**ARTICLE II. DIVISION 6. – ENERGY**

**Sec. 12-17.5** Energy Conservation Code shall be that adopted by the State of Illinois

**Commented [Aurora103]:** This is covered with MFR recommendations and Fastener penetrations. BUT We are reluctant to ask contractors to backout screws to verify the inner liner has not been penetrated. Should we find screws we should allow the contractor to prove that the inner liner has not been penetrated as one of the solutions.

**Commented [Aurora104]:** Clarifying State Pre-emption  
Previous language deleted.

**ARTICLE II. DIVISION 7. – RESIDENTIAL CODE**

**Sec. 12-17.6** ~~Same--~~Additions, insertions, deletions and changes.

The following sections of the **2009 International Residential Code** adopted in section 12-16 ~~are~~is hereby revised as follows:

**Section R105.2 Work Exempt from permit.** Refer to IBC Section 105.2 for exemptions (NOTE: Decks, Fences, Driveways and Sidewalks or pavement adjacent to Driveways require permits).

~~Building: Delete item 1 accessory structures. These shall require permitting except for playhouses.~~

~~Delete item 2 fences. These shall require permitting.~~

~~Delete item 5 sidewalks and driveways. These shall require permitting.~~

~~Delete item 10 decks. These shall require permitting.~~

**Subsection R106.1.3-4 shall be changed to read as follows:**

R106.1.3-4 Information for construction in areas prone to flooding. For buildings and structures in flood hazard areas as established on local floodway rate maps, locally adopted floodplain ordinances shall apply.

**Subsection R109.1.3 Floodplain inspections.** Shall be deleted in its entirety.

**Subsection R109.5 shall be added:**

**R109.5 Dry and Stable access-** Except for foundation inspections, a minimum 24" wide dry and stable access shall be provided to all inspection access points. Inspections scheduled for which this dry and stable access has not been provided will be disapproved and may be disapproved with penalty.

**Subsection R112.3-1.1 shall be ~~changed to read~~added as follows:**

R112.3-1.1 ~~Board of~~ Appeals. Appeals shall be made and conducted in accordance with the provisions of the ~~2009-adopted~~ International Building Code - Appendix B Board of Appeals as amended.

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SEPARATE  
RESOLUTION**

Table R301.2(1) ~~Insert -- CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:~~

Ground Snow Load	Wind Design				Seismic Design Category <sup>j</sup>	Subject to Damage From			Winter Design Temp <sup>e</sup>	Ice Barrier Underlayment Required <sup>h</sup>	Flood Hazards <sup>g</sup>	Air Freezing Index <sup>i</sup>	Mean Annual Temp <sup>j</sup>
	Speed <sup>d</sup> (mph)	Topographic Effects <sup>k</sup>	Special Wind Region <sup>l</sup>	Wind-borne debris zone <sup>m</sup>		Weathering <sup>a</sup>	Frost Line Depth <sup>b</sup>	Termite <sup>c</sup>					
25 lbs/sf	115	NO	NO	NO	B	Severe	42 inches below grade	Mod-Heavy	-5degF	YES	YES see Aurora Engineering Division	1635	48.7degF

Commented [Aurora105]: Modified table to include new categories for wind.

**RESIDENTIAL CODE IS BEING CONSIDERED UNDER A SEPARATE RESOLUTION**

Subsection R301.2.4 Floodplain Construction shall be changed to read as follows:

**R301.2.4** ~~Information for construction in areas prone to flooding.~~ For buildings and structures in flood hazard areas as established on local floodway rate maps, locally adopted floodplain ordinances shall apply.

The following section R302.2 exception shall be amended as follows:

**R302.2 Exception 1.** ~~In a fully sprinklered townhome structure, A common 1 hour fire resistance rated wall assembly tested in accordance with ASTM E119 or UL 263 is permitted for fully sprinklered townhome structures if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with Chapters 34 through 43. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.~~

The following sub-section R302.2.1 shall be added:

**R302.2 Exception 2.** ~~In lieu of the two 1 hour walls prescribed in Table 302.1 for common walls of townhome structures, A common 2 hour fire resistance rated wall acceptable to the code official shall separate un-sprinklered townhome structures.~~

Commented [Aurora106]: Incorporated in the 2015

The following shall be added to Chapter R302.5.1:

**R302.5.1.1:** ~~These doors shall be equipped with a self closing device.~~

Commented [Aurora107]: Incorporated in the 2015

The following subsection shall be added to Section R303.1.1:

**R303.1.1 Basements:** ~~Window area in basements, except as may be otherwise specified for habitable rooms, the glass window area in basements shall not be less than two (2) percent of the floor area served.~~

The last sentence of the exception to subsection R303.3 shall be amended as follows;

**R303.3** ~~Exception~~

... Ventilation air from the space shall be **independently** exhausted to the outside.

Exception to Subsection R304.2 shall be deleted and Subsection to R304.2 shall be added as follows:

**R304.2 .1 Living Spaces:** Living Room, Dining Room, Kitchen and Bedrooms shall provide the minimum floor areas as prescribed in the City of Aurora's Amended Property Maintenance Code ~~-- Occupancy Standards Section 404 - Occupancy Limitations OR 70 square feet whichever is greater.~~

Commented [Aurora108]: IPMC will be proposing increase in area requirements here

The following shall be added to Chapter R308:

**R308.7:** ~~Sliding Glass Doors.~~ Ground level or easily accessible, sliding glass doors shall have installed an approved permanent anti-slide device.

Subsection R309.3 Flood Hazard areas. Shall be deleted in its entirety.

The following subsection shall be added to Section R310.2:

R310.2. ~~23.3~~ **Basement Windows** Wells; window well locations shall be placed as remotely as practical from at grade door locations and shall place a min. #4 bar with min. 4" hooks at the top and bottom of each opening

**The following subsection shall be added to Section R310.4:**

R310.4.1 Window wells shall be provided with flat covers capable of supporting at least 150 lbs.

**The following subsection shall be added to Section R311.2:**

R311.2. ~~12.4~~ All swinging exterior doors, garage man doors and garage service doors shall be equipped with a dead bolt lock with a minimum one-inch throw and dead locking latch. Dead bolts shall contain hardened inserts, or equivalent, so as to repel cutting tool attack. Mortise-type locks may be used; if the above-described requirements are met.

**Subsection R313.1 shall be modified as follows:**

R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in each individual townhouse with a first floor Living Space footprint exceeding 5,000 ft<sup>2</sup>

**Subsection R313.2 shall be modified as follows:**

R313.2 One- and two family dwellings automatic fire sprinkler systems. ~~Effective January 01, 2011~~ ~~an~~ automatic residential sprinkler system shall be installed in One and Two family dwellings with a first floor Living Space footprint exceeding 5,000 ft<sup>2</sup>.

Commented [Aurora109]: No need for sunset clause anymore

**Subsection R322 Flood-Resistant Construction shall be changed to read as follows:**

R322.1. ~~11~~ ~~Additional~~ Information for construction in areas prone to flooding. For buildings and structures in flood hazard areas as established on local floodway rate maps, locally adopted floodplain ordinances shall additionally apply and the most restrictive requirements shall apply.

**Subsection R401.1 Application. Shall be changed to read as follows:**

R401.1. ~~The~~ provisions of this chapter shall control the design and construction of the foundation and foundation spaces of all buildings. In addition to the provisions of this chapter, the design and construction of foundations in areas prone to flooding as established by Table R301.2 (1) shall meet the provisions of section R322. Wood foundations shall not be allowed.

**Subsection R401.4.1 Geotechnical evaluation. Shall be changed to read as follows:**

R401.4.1 ~~A~~ Geotechnical report from a soils engineer shall accompany all new home permit applications and shall be amended with observed in place results after excavation and prior to scheduling the Footing inspection. Copy of the revised report shall be given to inspector at the footing inspection.

**Subsection R402.1 Wood Foundations and ~~its~~ subsections R402.1.1, & R402.1.2 shall be deleted in their entirety.**

**Subsection R403.1.1 Minimum size. Shall be deleted and changed to read as follows:**

R403.1.1 Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the load bearing value of the soil in accordance with Table R402.2. *Spread footings **Width** shall be twice the width of the foundation wall and not less than 16 inches. Spread footing **Thickness** (depth) shall be equal to the width of the foundation wall and not less than 8 inches. Footing **Projections**, P, shall be ½ the width of the foundation wall, not less than 4 inches and shall not exceed the thickness of the footing.*

**Table R403.1(1) Minimum width of concrete or masonry footing (inches). Shall be deleted and changed to read as follows:**

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	Height	Load Bearing Value of Soil (psf)			
		1,500	2,000	3,000	>= 4,000
Trench Footings w/ light-frame construction ----- with Horiz. Reinforcing (one #4 bar within 12" of top and bottom)	1-Story & < 10' joist span	16	12	12	12
Trench Footings w/ light-frame construction ----- with Horiz. Reinforcing (one #4 bar within 12" of top and one #4 bar at mid point)	1-Story	Engineered w/ Soil test	16	16	16
Trench Footings w/ masonry veneer ----- with Horiz. Reinforcing (one #4 bar within 12" of top and one #4 bar at mid point)	1-Story	Engineered w/ Soil test	20	20	20
Trench Footings ----- with Horiz. Reinforcing (one #4 bar within 12" of top and one #4 bar at mid point)	2-Story	Engineered w/ Soil test	24	24	24
Conventional light-frame construction	1-Story	16	16	16	
	2-Story	20			
	3-Story	24			
4-inch masonry veneer over frame or 8 inch hollow concrete masonry	1-Story	20	20	20	
	2-Story	24			
	3-Story	32			
8-inch solid or fully grouted masonry	1-Story	24	20	20	16
	2-Story	32	24	24	20
	3-Story	42	32		

**Table R403.1(2) shall be deleted in its entirety.**

**Table R403.1(3) shall be deleted in its entirety.**

**Figures R403.1 (2) and R403.1 (3) Permanent Wood Foundations shall be deleted in their entirety.**

The following section Chapter R403.1.4 shall be deleted and replaces with the following:

**R403.1.4.1: Frost Protection**~~Exterior footings and foundation systems for:~~

**Exceptions:**

1. Detached ~~and freestanding~~ single story accessory structures less than ~~768~~ gross square feet, with an eave height of less than 10'; shall be allowed to be supported on an approved ~~continuous~~ turned down slab detail per the building code.

**2. Deleted**

2. Decks not supported by a dwelling ~~and not adjacent to communicating doorways of a dwelling~~ need not be provided with footings that extend below the frost line. ~~Temporary handicapped ramps may be provided on non frost protected footings provided they are removed upon the lack of medical need of the ramp for the occupants.~~

3. ~~Non-conditioned attached accessory structures easily capable of converting to conditioned space shall have continuous footings extending to frost depth.~~

~~a. Determination of whether a space is easily capable of converting to conditioned space shall be per the Building Official. If any of the following are provided, the space may be construed as easily capable of converting to conditioned space:~~

- i) ~~Exterior insulated walls~~
- ii) ~~Insulated roofs~~
- iii) ~~Permanently installed weatherproof windows and or doors~~
- iv) ~~Electrical fixtures or outlets consistent with habitable space~~
- v) ~~Heating or air conditioning appliances or provisions~~
- vi) ~~Plumbing fixtures~~

4. ~~Non-conditioned attached accessory structures not capable of converting to conditioned space may be supported on pier foundation systems, which extend to frost depth.~~

~~a. Non-conditioned structures built on pier systems shall not be converted to conditioned space without addressing the lack of a continuous footing to the satisfaction of the Building Officials.~~

~~5.3.~~

**Subsection R403.2 Footings for Wood Foundations shall be deleted in its entirety.**

**Table R404.1.1 (1) Plain Masonry Foundation Walls shall be amended as follows:**

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Maximum Wall Height (feet)	Maximum Unbalanced Backfill Height <sup>c</sup> (feet)	Plain Masonry <sup>a</sup> Minimum Nominal Wall Thickness (inches)		
		Soil Classes <sup>b</sup>		
		GW, GP, SW and SP	GM, GC, SM, SM-SC and ML	SC, MH, ML-CL and inorganic CL
5	4	8	8	8
	5			10
6	4	8	8	8
	5			10
	6			12
7	4	8	8	8
	5		10	10
	6	10	12	10 solid <sup>d</sup>
	7	12	10 solid <sup>d</sup>	12 solid <sup>d</sup>
8	4	8	8	8
	5		10	12
	6	10	12	12 solid <sup>d</sup>
	7	12	12 solid <sup>d</sup>	Footnote <sup>e</sup>
	8	10 solid <sup>d</sup>	12 solid <sup>d</sup>	Footnote <sup>e</sup>
9	4	8	8	8
	5		10	12
	6	10	12	12 solid <sup>d</sup>
	7	12	12 solid <sup>d</sup>	Footnote <sup>e</sup>
	8	12 solid <sup>d</sup>	Footnote <sup>e</sup>	Footnote <sup>e</sup>
	9	Footnote <sup>e</sup>	Footnote <sup>e</sup>	Footnote <sup>e</sup>

~~Table R404.1.2(2) Minimum Vertical Reinforcement for 6-inch Nominal Flat Concrete Basement walls shall be deleted, 8 inch minimum wall width required see R404.1.2(3).~~

Commented [Aurora110]: 6 inch table removed from code

~~Table R404.1.2(5) Minimum Vertical wall reinforcement for 6-inch waffle-grid basement walls, shall be deleted, 8 inch minimum wall width required see R404.1.2(6).~~

~~Table R404.1.2(7) Minimum Vertical wall reinforcement for 6-inch screen-grid basement walls, shall be deleted,~~

~~Subsection R404.2 Wood Foundations walls and its subsections R404.2.1, R404.2.2, R404.2.3 and Table R404.2.3, R404.2.4, R404.2.5, and R404.2.6 shall be deleted in their entirety.~~

~~Table R404.2.3 Plywood grade and thickness for wood foundation construction shall be deleted in its entirety.~~

Commented [Aurora111]: Moved up one section

~~Section R405.2 Wood Foundations and its subsections R405.2.1, R405.2.2, and R405.2.3 shall be deleted in their entirety.~~

~~Section R406.3 Dampproofing for Wood Foundations and its subsections R406.3.1, R406.3.2, and R406.3.3 shall be deleted in their entirety.~~

~~Subsection R502.7.1 Bridging. Shall be deleted and changed to read as follows:~~

~~R502.7.1 Bridging. All Joists shall be supported laterally by solid blocking, diagonal bridging (wood or metal) or continuous 1 inch x 3-inch strips nailed across the bottom of the joist perpendicularly to the joist at intervals not exceeding 8 feet.~~

~~Section R504 Pressure Preservatively-Treated Wood Floors (on Ground) shall be deleted in its entirety.~~

~~Subsection R506.2.1.1 Shall be added:~~

~~R506.2.1.1 Back-fill under concrete floors in attached garages. The sub-base for poured concrete garage floors shall be undisturbed inorganic soil.~~

~~a. Fill materials brought from off-site shall be clean, graded sand, crushed stone or gravel.~~

~~b. When site soil is used as fill, it shall be appropriately soaked and compacted. The slab shall be doweled into the foundation wall as follows. Dowels (#4) shall be 3'-4" long, shall be doweled into foundation wall a minimum of 4", and shall be spaced at 24" on center; on all walls that do not provide 4" of bearing for slab.~~

Commented [Aurora112]: Has been added to the codes

~~Section R602.3.2 Single Top plate Exception only. Shall be deleted in its entirety.~~

~~Subsection R703.9 Shall be modified~~

~~R703.9 Exterior Insulation Finish Systems, general. All Exterior Insulation Finish Systems (EIFS) shall be installed in accordance with the manufacturer's installation instructions and the requirements of this section. Where permitted EIFS installations~~

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shall be required to provide a manufacturer's inspection of certification to the owner and shall be kept for inspection upon request. Repairs to existing EIFS systems shall be permitted to be repaired with EIFS systems w/ drainage using the installation recommendations of the Manufacturer.

**R703.9.1** EIFS systems without drainage shall not be installed permitted on new Type V buildings or in contact with wood sheathing or structural members. Where permitted EIFS installations shall be required to provide a manufacturer's inspection of certification to the owner and shall be kept for inspection upon request. Repairs to existing EIFS systems on wood shall be permitted to be repaired provided the damage is limited to less than 50% of the EIFS area.

**Commented [Aurora113]:** Systems have improved wish to provide more options for homes with existing systems.

**Subsection R703.9.1 shall be modified as follows:**

**R703.9.1** When permitted for repairs to existing systems, Exterior Insulation and Finish system (EIFS) shall be required to provide drainage per R703.9.2.

**Commented [Aurora114]:** Moved above

**Subsection R1003.9.1 shall be amended to read:**

**R1003.9.2.1** Spark Arrestors. A spark arrestor is required to be installed on all masonry chimneys; the spark arrestor shall meet all of the following requirements:

**Chapter 11 Energy Conservation** shall be deleted in its entirety; Compliance shall be determined by the current IECC and the State of Illinois Energy Code amended International Energy Code Council.

**The following Subsection shall be added to section M1401.1;**

**M1401.1.1 Temporary Heat system required;** Use of the new furnace during construction activities shall be prohibited. If new furnace is found to have been used, final inspections will not pass without a full system cleaning certification, plus the posting of a contractor installation and equipment warranty to match the manufacturer's equipment warranty period (if the manufacturer's warranty has been compromised by not following the manufacturer's installation instructions).

**The following subsection shall be added to Section M1502.3:**

**M1502.3.1 Clothes Dryer Termination:** Clothes Dryer exhaust duct systems shall terminate with a removable guard to prevent bird or rodent entry. For maintenance purposes, termination shall be located no greater than 12 feet above the walking surface or grade below.

**The following subsection shall be added to Section M1507M1506.23:**

**M1507M1506.23.1 Termination.** Bathroom exhaust ducts systems shall be equipped with a back draft damper and shall be terminated with a guard to prevent bird or rodent entry.

**The following Subsection shall be added to section M1601.1.1-:**

**M1601.1.1 (8); Ductwork;** Shall not protrude from the framing cavity when applications of finishes will compress or deform the duct.

**The following Subsection M1602.1.2 shall be amended added as follows;**

**M1602.12.1 Return Air; Disbursal of r** Return air openings shall be taken from each finished floor inside of the dwelling unit. Dilution of return air with outdoor air shall be permitted.

**The following Subsection shall be added to section M1601.4.1;**

**M1601.4.1.1 Furnace Filter Cap;** An air tight furnace filter cap shall prevent infiltration of air from the surrounding area and provide easy access to change the filter.

**Commented [Aurora115]:** We feel this is dealt with by mandated State Energy Efficiency codes

**The following Subsection to G2414 shall be deleted:**

**G2414.5 Metallic tubing;** All metallic tubing types 5.1-5.3 shall be deleted.

**The following Subsection shall be added to section M2426.6;**

**G2426.6.1 Vent support;** B vent support shall be provided every 5 feet minimum with no screw penetrations unless specifically required by the vent manufacturer, and then only when it can be demonstrated that the inner wall of the vent has not been penetrated.

**Commented [Aurora116]:** This is covered with MFR recommendations and Fastener penetrations. BUT We are reluctant to ask contractors to backout screws to verify the inner liner has not been penetrated. Should we find screws we should allow the contractor to prove that the inner liner has not been penetrated as one of the solutions.

**Chapters 25-32 Plumbing shall be deleted and The following subsection shall be added to Section P2501.1:**

**P2501.1.4 Scope.** Per the State of Illinois pre-emption A All Plumbing work shall conform to the current edition of the Illinois State Plumbing Code, the provisions of this code, and the amended 2009 International Plumbing Code, whichever is more restrictive.

**The following non-preempted subsections shall additionally be added to Section P2903.10:**

**P2903.10-2501.24 Hose bibb locations:** 2 hose bibbs located as remotely as practicable shall be required per residence (e.g. front and rear yards).

**Table P2905.5 shall be deleted and replaced with amended IPC Table 605.3**

Material	Standard
Chlorinated polyvinyl chloride (CPVC) plastic piping and tubing.*	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B 137-6
Cross-linked polyethylene (PEX) plastic tubing.*	ASTM F 876; ASTM F 877; CSA B137.5
Cross-linked polyethylene / aluminum / Cross-linked polyethylene (PEX-AL-PEX) pipe.*	ASTM F 1281; ASTM F 2262; CAN/CSA B137.10M
Cross-linked polyethylene / aluminum / high-density polyethylene (PEX-AL-HDPE) pipe.*	ASTM F 1986
Polyethylene / aluminum / polyethylene (PE-AL-PE) composite pipe.*	ASTM F 1282
Polypropylene (PP) Plastic pipe or tubing.*	ASTM F 2389; CSA B137.11

**Table P2905.5 shall be deleted and replaced with amended IPC table 605.4**

**The following subsection shall be added to Section P2905:**

**P2905.5-12501.3 Water Distribution Piping:** Water distribution piping shall be installed so that all water supplies except for hose bibbs are fed from an isolated single branch pipe for the possible future installation of a water filtration system.

**P2501.4 Water services** shall be sized per the State of Illinois Plumbing Code. Minimum new water service size shall be 1 inch.

**P2501.5 Public Systems Available:** Variations from provisions contained in this section may be applied for by filing an application with the public works department for referral to and consideration by the city council.

**P2501.5.1** A public water main shall be considered available to a building when the building is located within one thousand two hundred (1,200) feet of the public water main. Private wells shall not be allowed within the jurisdiction of the City of Aurora except as provided by section 48-28 of the Aurora Code of Ordinances.

**P2501.5.2** A public sewer system shall be considered available when the nearest point of the property is located within one thousand two hundred (1,200) feet of the public sewer.

**The following subsection shall be added to Storm Drainage Section P3303 Sumps and Pumping Systems**

**P3303.1.5 Required storm sump pit discharge** shall be handled in conformance with one of the following:

- (1) Discharge to the public storm sewer may occur at any time in conformance with City of Aurora Standard Specifications for Improvements.
- (2) Discharge to grade, when not prohibited above, may be permitted provided that the point of discharge is at least fifteen (15) feet from all property lines. Sump pumps shall not discharge directly into any street, sidewalk onto adjacent property, or in any manner that will flood or cause a nuisance. Sump discharge contrary to the above provisions shall be considered a violation as a public nuisance of the adopted IPMC 304 Exteriors, Roofs and Drainage subsection.

**Table P2905.6 shall be deleted and replaced with amended IPC table 605.5**

**Table P3002.1(1) shall be deleted and replaced with amended IPC table 702.1**

**Table P3002.1(2) shall be deleted and replaced with amended IPC table 702.2**

**Table P3002.2 shall be deleted and replaced with amended IPC table 702.3**

**Table P3002.3 shall be deleted and replaced with amended IPC table 702.4**

**Table P3302.1 shall be deleted and replaced with amended IPC table 1102.5**

**The following subsection shall be added to Section E3401.1:**

**E3401.1.1** All Electrical work shall conform to the current edition of the City of Aurora Electrical Ordinance and the provisions of this code, whichever is more restrictive.

**The following subsection shall be added to Appendix F Section AF103.1:**

**AF103.1.1** All new construction shall comply with this appendix.

**The following exception shall be added to Appendix J - EXISTING BUILDINGS AND STRUCTURES:**

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**Commented [Aurora117]:** Repeated in the Fox Metro and Engineering standards don't need to repeat.

**Commented [Aurora118]:** More clearly allows enforcement using the IPMC with this reference.

**Commented [Aurora119]:** Reference to Electrical Commission recommendation here.

**AJ201 Definitions.** The following Definitions shall be added.

**EXISTING, EXISTING INSTALLATION.** Any structure, component or installation regulated by this code that was legally installed prior to the effective date of this code adoption, AND for which the required permits and inspections have been issued and approved.

**Note:** In the absence of proof of legal installation or approval, the code official or his/her designee shall use historical code information and research to determine lack of legal installation or approval.

**AJ301.4 Electrical.** Repair or replacement of existing electrical wiring and *equipment* undergoing repair with like material shall be permitted.

**Exceptions:**

1. Replacement of electrical receptacles shall comply with the requirements of Chapters 34 through 43.
2. Plug fuses of the Edison-base type shall be used for replacements only where there is no evidence of over-fusing or tampering per the applicable requirements of Chapters 34 through 43.
3. For replacement of non-grounding-type receptacles with grounding-type receptacles and for branch circuits that do not have an *equipment* grounding conductor in the branch circuitry, the grounding conductor of a grounding type receptacle outlet shall be permitted to be grounded to any accessible point on the grounding electrode system, or to any accessible point on the grounding electrode conductor, as allowed and described in Chapters 34 through 43 below.

(a). A non-grounding-type receptacle(s) shall be permitted to be replaced with a ground-fault circuit interrupter type of receptacle(s). These receptacle(s) shall be marked "No Equipment Ground". An equipment grounding conductor shall be connected from the ground-fault circuit-interrupter-type receptacle to any outlet supplied from the ground-fault circuit-interrupter receptacle.

(b). A non-grounding-type receptacle(s) shall be permitted to be replaced with a grounding type receptacle(s) where supplied through a ground-fault circuit interrupter. Grounding-type receptacles supplied through the ground fault circuit interrupter shall be marked "GFCI Protected" and "No Equipment Ground". An equipment grounding conductor shall not be connected between the grounding-type receptacles.

**AJ401.5 Electrical equipment and wiring.** Newly installed electrical equipment and wiring relating to new work done in any work area shall comply with the materials and methods requirements of Chapters 34 through 43.

**Exception:** Electrical equipment and wiring in newly installed partitions and ceilings shall comply with all applicable requirements of Chapters 34 through 43; unless otherwise permitted by the building official.

**AJ501.1 Newly constructed Elements.** Newly constructed elements, components and systems shall comply with the requirements of this code.

**Exceptions:**

3. Additions to existing structures which would create a first floor total Living Space footprint of greater than the sprinklering thresholds in R313 shall not be required to be sprinklered unless more than 50 percent of the area of the dwelling unit is being remodeled.

**AJ501.3 Extensive alterations.** When the total area of all the work areas included in an *alteration* exceeds 50 percent of the area of the *dwelling unit*, the work shall be considered as a reconstruction and shall comply with the requirements of these provisions for reconstruction work.

**Exception:** NOTE: Work areas in which the alteration work is exclusively plumbing, mechanical or electrical shall not be included in the computation of total area of all work areas.

**AJ501.5 Electrical equipment and wiring.**

**AJ501.5.1 Materials and methods.** Newly installed electrical *equipment* and wiring relating to work done in any work area shall comply with the materials and methods requirements of Chapters 34 through 43.

**Exception:** Electrical *equipment* and wiring in newly installed partitions and ceilings shall comply with all applicable requirements of Chapters 34 through 43; unless otherwise permitted by the building official.

## ARTICLE II. DIVISION 8. — EXISTING BUILDING CODE

Sec. 12-17.7 Same--Additions, insertions, deletions and changes.

The following sections of the 2009 International Existing Building Code adopted in section 12-16 are hereby revised as follows:

**Subsection shall be added to 102.4 Reference Codes and Standards:**

**102.4.1 All references in the ICC series to the International Energy Conservation Code (IECC) shall instead refer the current State of Illinois amended adoption of the International Energy Conservation Code.**

**Subsection 112 Means of Appeals shall be deleted and the following text inserted:**

**112.1 Appeals.** Appeals to this code shall be conducted as prescribed in the adopted International Building Code.

## ARTICLE II. DIVISION 9. — FIRE CODE

Sec. 12-17.8 Same--Additions, insertions, deletions and changes.

The following sections of the 2009 International Fire Code adopted in section 12-16 are hereby revised as follows:

**The following subsections shall be added to Section 103.103:**

**Commented [s25mar-120]:** Definition from IRC - Note is our proposed addition requiring COA staff to use research to demonstrate lack of legal installation.

**Commented [13-5Apr121]:** Feel we should consider where there is work at the panel we should require Edison-Base fuses we should require Type S tamper resistant fuses. Note that frequently blown in insulation which should not be in contact with Knob and Tube is present.

**Commented [s25mar-122]:** Under most conditions, it is acceptable to repair existing electrical installations with the same types of wiring materials and electrical equipment as were used previously. However, this section identifies three conditions where additional criteria must be considered. Electrical receptacles must comply as for new construction as described in Chapters 33 through 42. Edison-base-type plug fuses can be replaced with like fuses only if it can be shown that no tampering or over-fusing has occurred. Alternate methods of grounding are also set forth when non-grounding-type receptacles are replaced.

**Commented [s22mar-123]:** Adding electrical provisions.

**Commented [CJ124]:** Discussed the possibility of running empty conduit

**Commented [s25mar-125]:** If the amount of construction activity in a dwelling unit involves more than 50 percent of the unit's floor area, the stringency of the requirements is increased. The category of work is reconstruction, with the requirements for both alterations and reconstruction to be followed. This increase to a higher level category is not required where the alteration consists only of plumbing, mechanical or electrical work.

**Commented [s25mar-126]:** Desire to highlight this important definition

**Commented [s25mar-127]:** In any work area, electrical equipment and wiring installed must comply with the requirements of Chapters 33 through 42. Such requirements are also applicable in the construction of new walls, partitions and ceiling systems.

103.~~32~~.1 The Fire Code Official for construction and remodeling permits shall be the Director of the Building & Permits and his designees. The Fire Code Official shall cooperate with the Fire Chief and the Fire Marshal.

103.~~32~~.2 The Fire Code Official for operational permits and existing structures shall be the Fire Marshal and his designees. The Fire Code Official shall cooperate with the Fire Chief and the Building Code Official.

#### 105.6 Required operational permits.

The following subsections shall be changed or deleted as follows:

**Subsection 105.6.~~11-12~~ Cutting and Welding.** Shall be deleted.

**~~Subsection 105.6.12-13~~ Dry Cleaning Plants** shall be changed as follows:

An operational permit is required to engage in the business of dry cleaning for Type I or Type II classifications.

**Subsection 105.6.~~27-28~~ LP - gas** shall be changed as follows:

An operational permit is required for:

~~1.~~ Propane 60 gallons or more (i.e. 3-100 lbs cyl.) water capacity total.

~~2-1.~~

**Subsection 105.6.~~30-32~~ Open Burning** shall be changed to delete the exception therein.

**Subsection 105.6.~~31-33~~ Open Flames and torches** ~~2.~~ An operational permit is required to remove paint with a torch: or use a torch or open-flame device.

**Subsection 105.6.~~34-36~~ Places of Assembly** shall be changed as follows:

An operational permit is required to operate a place of assembly above or below grade or over 300 occupants.

**Subsection 105.6.~~47-49~~ Laboratory** is added as follows:

An operational permit is required to operate any laboratory, which does research, testing or experimenting.

**Subsection 105.6.~~48-50~~ Battery Storage Systems:** is added as follows:

An operational permit is required for the installation of a stationary lead acid or nickel cadmium battery storage system having a liquid capacity of fifty (50) gallons or more of 1000 pounds of lithium-ion or lithium metal polymer battery system.

**Subsection 105.6.~~49-51~~ Child Care:** is added:

An operational permit is required to operate a child care business where 6 or more children (that do not reside permanently at the location) are cared for at any one time, and when required to be registered by the State of Illinois and /or the Department of Children and Family Services (DCFS).

**Subsection 109.~~2-3~~ shall be changed to read as follows:**

**109.~~23~~ -Notice of Violation.** When the fire code official, Fire Marshal, Fire Chief or their designees finds a building, premises, vehicle, storage facility or outdoor area that is in violation of this code, the fire code official, Fire Marshal, Fire Chief or their designees are authorized to prepare a written notice of violation describing the conditions deemed unsafe and, when compliance is not immediate, specifying a time for re-inspection.

**Subsection 109.~~3-4~~ shall be changed to read as follows:**

**109.~~34~~ -Violation Penalties:** Persons who violate a provision of this code or shall fail to comply with any of the requirements there of or who shall erect, install, alter repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under the provisions of this code, shall be guilty of a Misdemeanor, punishable by a fine of not more than \$1,000 dollars or by imprisonment as prescribed by State Law, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**Subsection 109.3.~~2-5~~ shall be added:**

**109.3.~~2-5~~ -Costs of emergency repairs.** Costs incurred in the performance of emergency work shall be paid from the treasury of the jurisdiction on approval of the code official. The legal counsel of the jurisdiction shall institute appropriate action against the owner of the premises where the unsafe structure is or was located, and **two hundred percent (200%)** of the cost of such work ~~shall may~~ be charged against the real estate upon which the structure is or was located and shall be a lien upon such real estate.

**Subsection ~~114~~111.4 shall be changed to read as follows:**

**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 the person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than \$500 or more than \$1,000 per offense per day.

**Subsections 503.1.1 shall be modified as follows:**

**503.1.1 Exception #1.1.1:** If the building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, the fire code official is authorized to increase the 150 foot dimension to 200 feet.

**Subsections shall be added to Section 503.2 as follows:**

**503.2.5 Dead Ends at Sprinklered Buildings:** Fire apparatus access road dead ends at sprinklered buildings, shall be permitted to extend to 200 feet without an approved turnaround.

**Commented [Aurora128]:** Matching the currently approved language from appendix D for clarity.

**Subsections shall be added to Section 503.3 as follows:**

**503.3.1 Fine Signage:** An additional sign acceptable to the Fire Marshal shall be added indicating "**FINE \$50250.00-00**" (\*Fine amount shall match the currently required handicapped parking fine signage mandated by the State of Illinois).

**503.3.2 Red Painted/Striped Designation:** The road/lane shall have the curb painted red for the entire length: Or, if no curb is present the edge of the road surface shall be red striped the entire length: Or lane shall be painted/striped as required by the Fire Marshal or his designee.

**Subsections shall be added to Section 503.4 as follows:**

**503.4.1 Fire Lane Penalties:** Any person parking a vehicle in a properly designated fire lane shall be punished as provided in the Code of Ordinances of the City of Aurora, Illinois Section 27-63.

**Subsections shall be added to Section 506.1 as follows:**

**506.1.1 Required Lock Box Locations:**

1. Main entrance to the building
2. Exterior access point to sprinkler room(s)/alarm panel location(s)
3. Exterior access to command center
- 4.3.

**The exceptions of Subsections of 507.5.1 shall be deleted in their entirety:**

**The following Subsections of 507.5 Fire Hydrant systems shall be added:**

**507.5.1.1 Hydrant Spacing:** Two (2) hydrants shall be located within a 400 foot radius of the building. All portions of the building shall be within a 400 foot radius of one or both hydrants.

**507.5.1.2 Fire Department Connection Supply Hydrant:** A supply hydrant for any Fire Department Connection shall be located between 50-100 feet from the Fire Department Connection.

**507.5.5 Clear space around hydrants.** Shall be changed as follows:

A 5-foot clear space shall be maintained around the circumference of fire hydrants except as otherwise required or approved.

**507.5.7 Hydrant Marking.** Shall be added:

In apartment, townhome, condominiums, town/row or cluster housing "housing" "No Parking...Fire Hydrant" signs shall be placed: Or yellow-red curb painting of fifteen (15) feet, (seven and one half (7 ½ feet) each side of the fire hydrant) shall be painted by the developer, owner, or contractor.

**507.5.7.1 Fine Signage:** An additional sign acceptable to the Fire Marshal shall be added indicating "**FINE \$250.00**" (\*Fine amount shall match the currently required handicapped parking fine signage mandated by the State of Illinois). "**FINE \$50.00**"

**508.1.1.1 Command Center Access:** Shall be added:

An exterior entrance to the command center shall be provided and shall be approved by the Fire Code Official.

**509.3 Enclosure of Fire Pumps, Fire Protection riser areas and/or Sprinkler control valve areas:** Shall be added:

Fire pumps, Fire protection riser areas and/or Sprinkler control valve areas shall be enclosed with a minimum of a 1 hour rated enclosure (IBC 508-2.5 or 509 may require higher rating).

**509.3.1 Exception:** Shall be added:

Secondary risers and auxiliary control valves need not be enclosed unless required by the Fire Code Official.

**509.4 Exterior Access to Enclosed Fire Pumps, Fire Protection riser areas and/or Sprinkler control valve areas:** Shall be added:  
Fire pumps, Fire protection riser areas and/or Sprinkler control valve areas shall be provided with direct exterior access, and an approved access walkway from a Fire apparatus access road to the access doorway; when required to be enclosed by 509.3.

**901.10-11 Fire alarm systems.** Shall be added as follows:

Fire alarm systems shall be monitored by a ~~central supervising station~~ remote supervising station as defined in NFPA 72.

**Exceptions:**

1. Single and multiple-station smoke alarms required by Section 907.2.4011.
2. Smoke detectors in Group I-3 occupancies.
3. When approved by the fire official, on-site monitoring at a constantly attended location shall be permitted provided that notifications to the fire department will be equal to those provided by an approved supervising station.

**Commented [Aurora129]:** Comment from Band FCC meeting 6dec17

**901.11-12 Group H.** Shall be added as follows:

Manual fire alarm, automatic fire extinguishing and emergency alarm systems in Group H occupancies shall be monitored by a ~~central supervising station~~ remote supervising station as defined in NFPA 72.

**Exception:** When approved by the fire official, on-site monitoring at a constantly attended location shall be permitted provided that notifications to the fire department will be equal to those provided by an approved supervising station.

**Commented [Aurora130]:** Comment from Band FCC meeting 6dec17

**Subsections of Section 903.2 shall be modified as follows:**

**Subsections of Section 903.1 shall be added as follows:**

**903.1.2 New Building Square footage thresholds:** Except for one and two family dwellings, an automatic sprinkler system shall be required for all use groups where fire areas exceed 12,000 square feet. For fire areas 12,000 square feet or under, the section 903.2 use specific code text square footage thresholds shall still apply.

**903.1.3 New Building Height thresholds:** Except for one and two family dwellings, an automatic sprinkler system shall be required for all use groups where building stories exceed two stories, and mixed use group buildings, with one use above a different use exceeding one story. For buildings under two stories, the IBC Table 504.4 use specific code text number of story thresholds shall still apply.

**Commented [Aurora131]:** After meeting with Fire staff recommends the following threshold modifications.

**903.1.4 Sprinkler systems when required for multi-tenant buildings:** shall be provided with a tenant zoned flow switch and tampered control valve mounted at no more than 5 feet above finished floor and as accepted by the fire code official.

**Commented [Aurora132]:**

**Commented [Aurora133]:** After meeting with Fire staff recommends the following threshold modifications.

**Commented [Aurora134]:** After meeting with Fire staff recommends the following threshold modifications.

**903.2.1.1 Group A-1...**

1. The fire area exceeds 12,000 5,000 square feet.

**903.2.1.3 Group A-3...**

1. The fire area exceeds 12,000 5,000 square feet.

**903.2.1.4 Group A-4...**

1. The fire area exceeds 12,000 5,000 square feet.

**903.2.2 Group B** An automatic sprinkler system shall be installed throughout all group B uses in which a fire area excess of 5,000 square feet. Additionally, an automatic sprinkler system shall be installed throughout all fire areas containing a Group B ambulatory health care facility when either of the following conditions exist at any time: ...

**903.2.3 Group E...**

1. Throughout all Group E fire areas greater than 12,000 5,000 square feet in area.

**903.2.4 Group F-1...**

1. A group F-1 fire area exceeds 12,000 5,000 square feet.

**903.2.7 Group M...**

**Subsections of Section 903.2 shall be modified as follows:**

1. A group M fire area exceeds 12,000 5,000 square feet.

**903.2.8 Group R...**

**Add 903.2.8.1 NOTE:** Townhomes; and One and two family dwellings shall be required to be sprinklered per International Residential Code - R313.

**903.2.9 Group S-1...**

1. A group S-1 fire area exceeds 12,000 5,000 square feet.

**903.2.9.1 Group S-1 Repair garages...**

1. A group S-1 repair garage fire area exceeds 10,000 5,000 square feet.

2. Deleted

**903.2.10 Group S-2 enclosed parking garages...**

1. A group S-1 repair garage fire area exceeds 10,000 5,000 square feet.

**Commented [Aurora135]:** Dev Services desires reverting back to the national standard for these thresholds but keeping the SF exception we created.

**Subsection shall be added to Section 903.2.8 as follows;****903.2.8.1 Exceptions:**

Owner occupied, R-3 structures not required to be sprinklered by the amended International Residential Code, OR the amended International Building Code shall not be required to be sprinklered.

**Subsection 903.3 shall be modified by adding:****Subsection 903.3.1.2 -NFPA 13R sprinkler:**

Exception 1. Group R buildings of Type 3, Type 4 or Type 5 construction must be sprinklered in accordance with Section 903.3.1.1 and shall retain the sprinkler protection of Balconies and Decks in section 903.3.1.2.1.

**903.3.5 Water supplies.** Shall be changed as follows:

Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. ~~New sprinkler systems shall be supplied with an isolated separate tap to the municipal water system.~~ The ~~building's building~~ and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section and the State of Illinois Plumbing Code.

**Commented [Aurora136]:** State pre-emption requires that this be struck

**903.4. ~~Sprinkler System supervision and alarms:~~** Exception # 3 and Exception # 6 shall be deleted in their entirety:**Subsection ~~905.3 Required~~ 905.3 Required installations shall be modified as follows:**

905.3 Standpipe systems shall be installed where required by Sections 905.3.1 through 905.3. ~~Stand 9 in the locations indicated in Sections 905.4, 905.5 and 905.6.~~ Standpipe systems are allowed to be combined with automatic sprinkler systems.

**Commented [Aurora137]:** 2015 Text change

**The following subsection shall be added;**

905.3. ~~8-9~~ Access to Interior of Buildings. Class 1 standpipes shall be installed at access doors and interior locations of nonsprinklered buildings where attack hoses cannot reach all portions of the interior of the building within 150 feet or sprinklered buildings where attack hoses cannot reach all portions of the interior of the building within 200 feet.

**Commented [Aurora138]:** We get challenged on this provision a great deal

**Subsection ~~905.4 shall~~ 905.4 shall be modified as follows:**

Item 7. Shall be added to Subsection 905.4 Location of Class 1 standpipe hose connections as follows;

7. Where all interior locations of a nonsprinklered building cannot be reached with 150 feet of attack hose ~~lay~~ from an access door or all interior locations of a sprinklered building cannot be reached with 200 feet of attack hose ~~lay~~ from an access door, an interior standpipe system which is connected to a public water system and which is equipped with a fire department connection will be required at the access door and at points within the building within 150 feet ~~hose lay~~ of the access door within a nonsprinklered building or within 200 feet ~~hose lay~~ of the access door ~~and then 200 feet hose lay standpipe to standpipe~~ within a sprinklered building.

**Commented [Aurora139]:** We get challenged on this provision a great deal

**905.9. ~~Valve Supervision:~~** Exception # 2 shall be deleted in its entirety:**Subsection 907.1.3.1 shall be added:**

907.1.3.1 Where a protected/rated sprinkler riser room exists the fire alarm control panel shall be located within.

**Section 907.1.4 Additional Alarm Requirements for sprinklered occupancies.** Shall be added:

**907.1.4 Additional Alarm Requirements for sprinklered occupancies.** In addition to items required by section 907 the following apurtenances will also be required in the uses/occupancies when the occupancy is required to be sprinklered.

**907.1.4.1 All occupancies**

907.1.4.1.1 ~~Water flow to cause general alarm throughout~~

~~907.1.4.1.2 In new buildings requiring sprinklers or buildings undergoing a comprehensive addition of a sprinkler system, individual tenant spaces shall be provided with separate alarm flow switches and tampered control valves.~~

**Commented [Aurora140]:** This is required in order to locate the fire origin and provide this information to the main and addressable annunciator panels.

**907.1.4.2 All Single Tenant occupancies**

907.1.4.2.1 ~~Alarm Annunciator at main entrance~~

**907.1.4.3 All ~~Multi-Tenant~~ Multi-Tenant occupancies**

907.1.4.3.1 ~~Alarm Annunciator in sprinkler room~~

907.1.4.3.2 ~~Annunciator at each tenant entrance if 907.1.4.3.1 can't be met~~

907.1.4.3.3 ~~Annunciator at tenant space entrance if newly created or expanded space exceeds 7500 square feet.f.:~~

**Commented [Aurora141]:** Still debating this provision.

**907.1.5 Additional fire alarm system requirements.**

**907.1.5.1 New fire alarm systems.** Newly installed complete alarm and detection systems shall be provided with addressable panels.

**907.1.5.2 New fire alarm system in buildings without sprinklers.** Buildings without sprinkler systems which have installed alarm systems shall require code compliant smoke detection to inform the addressable alarm system of the area of origin an automatic smoke detection system that activates the occupant notification system.

**907.1.5.3 Radio alarms.** Point Identification and Zone Identification. A radio alarm transmissions installations shall report point identification or zone identification additionally install a supplemental alarm reporting device that provides zone or suite specific data to the remote supervising station monitoring company.

**Commented [Aurora142]:** This is required in order to provide details of origin to the main panel and the addressable annunciator panel.

**Commented [Aurora143]:** Desire of Fire Prevention Bureau

**907.2.9.1 Group R-2, Manual fire alarm system.** Shall be changed as follows:

907.2.9.1 -(1.) Any dwelling unit or sleeping unit is located one or more stories above the lowest level of exit discharge.

907.2.9.1 -(3.) The building contains more than 12 dwelling units or sleeping units.

907.2.9.1 — Exceptions 1 & 3 shall be deleted.

**907.4.3.1 Duct Smoke Detectors.** Exception #1 shall be deleted.

**907.3.1.1 Duct Smoke Detection.** Duct smoke detection alarm shall be supervisory to the monitoring company. The detectors remote LED trouble indicator LED/station shall be exposed installed in the finished space on the nearest wall to the unit and no more than five feet from the floor, or in an alternate conspicuous location acceptable to the Fire Code Official.

**907.5.1 Protection of Fire Alarm Control Unit.** Exception #2 shall be deleted.

**Commented [Aurora144]:** Desired by Committee and FPB

**907.5.4.2.4 Signs.** Shall be deleted.

**907.6.2.3.5 Fire 907.5.2.3.4 Fire Department Connection Alarms.** Shall be added.

Exterior notification appliances with red lens strobe activated on water flow shall be placed above the Fire Department Connection at no less than 8 feet above grade.

**910.1 Exception 2 add manual smoke exhaust system**

**Commented [Aurora145]:** Manual System not needed for exit travel.

**912.5.6 Backflow Protection.** Shall be changed as follows:

The building's and municipal potable water supply shall be protected against backflow in accordance with the requirements of this section and the State of Illinois Plumbing Code.

**912.7.8 F.D.C. Connection Type.** Shall be added as follows:

Fire Department Connections shall be a 4 " Storz connection with a 30 degree elbow to grade and shall be visible from street of address and as close to the riser room as possible.

**913.4 Valve supervision.** Shall be changed as follows:

Exceptions Methods 2 through 4 are deleted.

**Table 914.8.2-3** Shall be deleted and modified as follows:

For Table 914.8.2-3 please refer to IBC table 412.4.6 and footnotes.

**The following subsection shall be added:**

**Section 1008.1.11 Exterior Door Hardware:**

**1008.1.11.1** Exterior door hinges. Outside hinges on all exterior doors shall be provided with non-removable pins when using pin type hinges, and/or the center hinge shall have a steel dowel projecting a minimum of three quarter inch from one plate into the opposite plate of the hinge.

**1008.1.11.1.1** Means of egress doorways. For the purpose of this section, entrance doors to individual units in Use Groups R-1 and R-2 shall be considered exterior doors.

**1008.1.11.1.2** Exterior door frames. All exterior doorframes shall be established with high security strike plates utilizing two to three inch screws.

**1008.1.11.1.3** Exterior Door jambs. In swinging exterior doors shall have rabbeted jambs. Jambs for all doors shall be constructed or protected so as to prevent violation of the function of the strike.

**Commented [Aurora146]:** Obsolete requirements

**1030.1.8 Inspection.** Testing and Maintenance. Shall be modified as follows:

All two-way communication systems for areas of refuge shall be inspected on a yearly basis by an approved contractor or have an approved preventative maintenance schedule set up quarterly and approve by the Fire Marshal.

**~~1410-3310~~ — Access for firefighting** shall be changed as follows:

**~~1410-3310~~** shall be re-titled: **Access for Emergency Response:**

**Subsection ~~1410-43310.1~~ Required Accesses.** Shall be ~~changed-added~~ as follows:

Approved Vehicle access for emergency response shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 50 feet of temporary or permanent fire department connections and to a building interior access point. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.

**Subsection ~~3301-1.3-15601.1.3~~ Use/Sale/Handling of Fireworks.** Shall be ~~added-replaced~~ as follows:

It shall be unlawful to sell, offer for sale, give, store, use, possess, explode, fire, ignite or discharge any fireworks or other pyrotechnics within the corporate boundaries of the city. No public exhibition of fireworks shall be made or given unless the exhibition of the same is previously approved, by the fire marshal, upon written application, and the exhibition is supervised by the fire marshal, the fire chief, or one of their designees.

**Subsection ~~3301-1.6-5601.3.1~~ Storage of Explosives and Blasting Agents.** Shall be added as follows:

The area limits in which storage of explosives and blasting agents is prohibited are established as follows: The entire area of the city except that portion classified as M-2 manufacturing district under the city zoning ordinance, being Ordinance No. 3100 as amended from time to time; And then only when permitted by the Zoning Administrator and Fire Marshal.

**Subsection shall be added to section ~~3306-55606.5~~ Display and storage in Group M occupancies as follows:**

**Subsection ~~3306.5-35606.5.1.4~~ Small Arms Ammunition**

Shall be located in a locked display cabinet and/or locked storage area.

**Subsection ~~34045701.1.1~~ Storage of Flammables/Combustibles.** Shall be added as follows:

The area limits in which storage of flammable and combustible liquids in outside aboveground tanks is prohibited are established as follows: The entire area of the city except by special application to and approval by the fire marshal; and then only when permitted by the Zoning Administrator.

**Subsection ~~34045701.1.2~~ Bulk Plants for Flammables/Combustibles.** Shall be added as follows:

The area limits in which new bulk plants for flammable and combustible liquids are prohibited are established as follows: The entire area of the city except by special application to and approval by the city council and Fire Marshal.

**Subsection ~~38046101.1.1~~ Bulk Storage of Liquefied Petroleum Gasses.** Shall be added as follows:

The area limits in which bulk storage of liquefied petroleum gas is prohibited are established as follows: The entire area of the city except that portion classified as M-2 manufacturing district under the city zoning ordinance, being Ordinance No. 3100 as amended from time to time; and then only as approved by the Fire Marshal.

**Subsection A101.1 to Appendix A, Board of Appeals:** Shall be added as follows:

Application for appeal shall be accompanied by a ~~court reporter~~ fee of five hundred (\$500.00) dollars.

**Subsection C102.1.1** Shall be added to Section C102.1 as follows:

**C102.1.1** The following conditions shall also apply to hydrant placement on private property

- (1) A fire hydrant shall be located between fifty (50) feet to one hundred (100) feet from fire department connection.
- (2) Hydrants shall not be located within 50 feet from the building perimeter (collapse zone).
- (3) Hydrants shall be located no more than 5 feet from ~~all-weather~~ ~~all-weather~~ roadways. When existing obstructions cannot be avoided, the closest part of the hydrant shall be placed no less than two (2) feet back from the face of the curb or edge of pavement.
- (4) Center of discharge outlets shall be located eighteen (18) to twenty-four (24) inches above final grade and steamer outlet shall face the street or access road. Hydrants shall be plumb and capped at all times.
- (5) Hydrants shall be on north or west sides of streets, parking lots and dead ends.
- (6) When fire hydrants are located in open areas such as parking lots, entrance, exit, loading and unloading zones, they shall be protected from vehicle traffic by four-inch steel pipe posts. Posts shall be set in concrete. Inside of post shall be filled with concrete from bottom to top and crowned. Distance between fire hydrant and post shall be three (3) feet.
- (7) All fire hydrants shall be placed on looped water mains or on isolated dead ends no more than 150' from the municipal water supply.
- (8) Extension of water mains. Water mains and fire hydrants located thereon shall be extended in all developments across and one (1) foot beyond the lot or lots being developed, in all directions, along the public streets.
- (9) Fire hydrant maintenance and inspection. Where fire hydrants are located on private property, the hydrant and water main shall be repaired and maintained by the private property owner or developer, and the city fire department and water maintenance department shall and are given authority to go on private property for periodic testing and inspection of fire hydrants to assure their functioning and use under emergency conditions.

~~(10)~~ Fire hydrants in unusual developments. Where fire hydrants and water mains are needed by life safety and property protection due to the unusual nature of a development such as depth of property, or any area not covered by adequate fire protection, the owners and developers shall supply fire hydrants and water mains with proper flow. Approval of location, size, water flow, design and installation shall be obtained from the city water department and fire department. Such supply and installation shall be done and completed by the owner or developer of the property in question. (Code 1969, § 17-47(B))

~~(11)(10)~~

Table ~~C105~~**C102.1, Number and Distribution of Fire Hydrants in Appendix C:** Shall be added as follows:  
Reference to Minimum Number of Hydrants which equal One (1) shall be amended to Two (2)

Appendix D shall be changed as follows:

~~Figure D103.1 Dead end Fire Apparatus Access Road Turnaround. Shall be added as follows:~~  
~~96' Diameter Cul-de-sac shall be changed to a 90' Diameter Cul-de-sac.~~

Subsection D103.2.1 Obstruction. Shall be added as follows:

Maximum height of roadway obstructions shall not exceed three (3) inches.

Subsection D103.4.1 Dead Ends at Sprinklered Buildings. Shall be added as follows:

D103.4.1 ~~Dead Ends at Sprinklered Buildings:~~ Fire apparatus access road dead ends at sprinklered buildings, shall be permitted to extend to 200 feet without an approved turnaround.

~~D103.4.2 Parking lot Dead Ends beyond the Extent of a Required Fire Lane: If a required fire lane meets the hose stretch test of IFC 503 and could be terminated without an approved turnaround per D103.4 or D103.4.1; the adjacent parking field or pavement may continue past the fire lane termination without being considered a fire lane provided that a permanent parking island with "End Fire Lane" signage is provided at the required extent of the fire lane.~~

Subsections shall be added to D103.6 Signs: as follows:

D103.6.3 ~~Fine Signage:~~ An additional sign acceptable to the Fire Marshal shall be added to the Fire Lane Signage indicating ~~"FINE \$250.00" (\*Fine amount shall match the currently required handicapped parking fine signage mandated by the State of Illinois).~~ ~~"FINE \$50.00"~~

D103.6.4 ~~Signage Frequency:~~ Signage shall be placed at both ends of the Fire Lane and shall be placed at intervals of one hundred and fifty (150) feet.

Appendix F shall be changed as follows:

Subsection F101.2.1 Signage. Shall be added as follows:

Minimum size of sign shall be 10 ¼ inches square, shall be permanent and of a material acceptable to the Fire Code official.

(Code 1969, § 12-2; Ord. No. 087-5615, § 1, 1-20-87; Ord. No. 087-5675, § 1, 6-16-87; Ord. No. 087-5697, § 1, 8-4-87; Ord. No. 087-5715, § 2, 9-15-87; Ord. No. 087-5746, § 1, 12-15-87; Ord. No. 088-71, Exh. A, 6-21-88; Ord. No. 088-66, § 3, 6-7-88; Ord. No. 089-19, § 3, 3-7-89; Ord. No. 089-52, 6-20-89; Ord. No. 092-03, § 1, 1-21-92; Ord. No. 093-54, § 1, 7-6-93; Ord. No. 093-88, § 1, 10-5-93; Ord. No. 094-22, § 1, 3-15-94; Ord. No. 094-38, § 2, 5-3-94; Ord. No. 095-01, § 1, 1-3-95; Ord. No. 095-47, § 3, 7-5-95; Ord. No. 095-58, § 1, 8-1-95)  
Cross reference(s)--Fine schedule for violations, § 1-11.

### ARTICLE III. ELECTRICITY\*

~~Section 12-31 reserved~~

~~Sec. 12-32. Electrical code ordinance adopted.~~

~~That certain document, three (3) copies of which are on file in the office of the Building Code Official, being marked and designated as the City of Aurora Electrical Ordinance,~~

~~2008 NFPA-70 National Electrical Code--~~

~~As published by the National Fire Protection Association and adopted as the Electrical Ordinance of the City of Aurora, Illinois in the State of Illinois for the control and regulation of installation and/or alteration of electrical systems and electrical equipment, for the utilization of electricity for light, heat or power. Each and all of the regulations, penalties, conditions and terms of said edition of NFPA-70 are hereby referred to and amended in part hereof as if fully set out in this article, with the additions, insertions, deletions, and changes prescribed in~~  
~~ARTICLE III. Sections 12-32 through 12-106.~~  
~~(Ord. No. 092-37, § 1, 6-2-92; Ord. No. 099-41, §§ 1, 11, 6-8-99)~~

~~Section 12-33 through Section 12-39 reserved.~~

(Ord. No. 010-017, 5-11-10; Ord. No. 012-013, § 1 (Exh. A), 2-28-12; Ord. No. 013-009, § 1 (Exh. A), 3-12-13)

**Commented [Aurora147]:** Reduced the radius to match our equipment needs.

**Commented [Aurora148]:** Fire desired just stick to the code provision. Committee agreed 06dec17

**Commented [Aurora149]:** Speed bump limitations added by FPB in 2010.

**Commented [Aurora150]:** Dev Services desires this in lieu of pitting parking needs against fire needs on tight sites. Additionally this would generally allow for more buildable area on the site.

**Commented [Aurora151]:** Adoption and amendments under separate cover