

## Residential Code

Chapter 105, of the Code of Ordinances of the City of Rockford, Illinois, is hereby amended as follows:

Section 105-84 is amended as follows:

### **Section 105-84. Adopted by reference.**

The ICC International Residential Code/2021 as published by the International Code Council including Appendix A, B, C, D, E as amended, G as amended, and H is hereby adopted as the Residential Code of the City of Rockford in the State of Illinois; and each and all of the regulations, provisions, penalties, conditions and terms of said code are hereby referred to, adopted and made a part thereof as if fully set out in the section, with the additions, insertions, deletions and amendments contained in [section 105-85](#) of this article.

Section 105-85 is amended as follows:

### **Section 105-85 Amendments, additions and deletions.**

Amendments to the ICC International Residential Code 2021 have not been set out herein, but can be found on file with the appropriate department of the city for review and purchase by the public.

### **Amendments to the Residential Code.**

The ICC International Residential Code 2021 edition is amended as follows:

(1) Section R101.1 is amended as follows:

**R101.1 Title.** These provisions shall be known as the *Residential Code for One- and Two-family Dwellings of Rockford, State of Illinois*, and shall be cited as such and will be referred to herein as “this code.”

(2) Section R103.4 is added as follows:

**R103.4 Restriction of employees.** An official or employee connected with the enforcement of this code, except whose only connection is that of a member of the board of appeals established under the provisions of section 112 of this code, shall not be engaged in, or directly or indirectly connected with, the furnishing of labor, materials or appliances for the construction, alteration or maintenance of a building, or the preparation of construction documents thereof, unless that person is the owner of the building; nor shall such officer or employee engage in any work that conflicts with official duties or with the interests of the department.

(3) Section R104.1.2 is added as follows:

**104.1.2 Automatic Appeals.** In any case where orders or approvals by the Code official and Director of the Fire prevention Bureau are not in full agreement, the matter shall be resolved in the following manner: The case shall be reviewed by the

Community Development Director and the Fire Chief. If agreement cannot be reached, the matter shall be referred to the City Administrator for review and decision. The decision of the City Administrator may then be appealed to the Building Board of Appeals pursuant to Section 113.

(4) Section R105.2 is amended as follows:

**R105.2 Work exempt from permit.** Exemption 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 the following:

**Building:**

1. Other than storm shelters, one-story detached accessory structures including decks used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 200 120 square feet (xx m<sup>2</sup>) and is not supported by another structure.
2. ~~Fences not over 7 feet (2134 mm) high.~~
3. Retaining walls that are not over 4 feet (1219 mm) in height measured from the bottom of the footing grade at bottom to the grade at top of the wall of the footing to the top of the wall, unless supporting a surcharge.
4. Water tanks supported directly upon *grade* if the capacity does not exceed 5,000 gallons (18 927 L) and the ratio of height to diameter or width does not exceed 2 to 1.
5. Sidewalks and ~~driveways~~ concrete patios and not more than 30 inches (762 mm) above adjacent grade and not over any basement or story below.
6. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
7. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.
8. Swings and other playground equipment.
9. Window awnings supported by an exterior wall and not extending into a City of Rockford right-of-way. that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.
10. ~~Decks not exceeding 200 square feet (18.58 m<sup>2</sup>) in area, that are not more than 30 inches (762 mm) above grade at any point, are not attached to a dwelling do not serve the exit door required by Section R311.4.~~
10. Replacement of doors or windows provided the size is not changed, the new unit complies with the Energy Conservation Code and a fire rating is not required.
11. Repair or replacement of interior or exterior wall, floor, or ceiling assembly components provided:
  - a. Not more than 50% of an interior or exterior wall, floor, or ceiling assembly calculated individually in a room is affected,
  - b. The scope of work does not affect any fire rated or structural components, and
  - c. Structural elements required to be protected or that are in a hazardous condition are not exposed.

**Electrical:**

1. *Listed* cord-and-plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles but not the outlets therefor.
3. Replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Electrical wiring, devices, *appliances*, apparatus or *equipment* operating at less than 25 volts and not capable of supplying more than 50 watts of energy.
5. Minor repair work, including the replacement of lamps or the connection of approved portable electrical *equipment* to *approved* permanently installed receptacles.
6. Low voltage wiring and systems not associated with fire alarm or other life safety systems.

7. Repair or replacement of interior or exterior wall and ceiling coverings, provided:
  - a. not more than 50% of coverings in a room are removed,
  - b. framing is not exposed to the extent where smoke alarms are required to be wired to buildings electrical system and be interconnected by section R317.1.1,
  - c. electrical wiring in a hazardous condition is not exposed and the minimum standards for receptacles, light switches and light fixtures established in sections 604 and 605 of the *International Property Maintenance Code* as amended have been met,
  - d. electrical systems are not being resized, rearranged or extended.
8. Replacement of counters, provided they are not lengthened more than two feet where part of a kitchen or wet bar within a dwelling.

**Gas:**

1. Portable heating, cooking or clothes drying appliances
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
3. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.
4. Self-contained refrigeration package-type equipment in which all components of the refrigeration system are located within a single enclosure without requirement for on-site assembly or piping of any kind whatsoever.

**Mechanical:**

1. Portable heating appliances;
2. Portable ventilation appliances and equipment;
3. Portable cooling units;
4. Steam, hot- or chilled-water piping within any heating or cooling equipment or appliances regulated by this code.
5. The replacement of any minor part that does not alter the approval of equipment or an appliance or make equipment or appliance unsafe.
6. Portable evaporative coolers; and
7. Self-contained refrigeration systems containing 10 pounds (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) or less.
8. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

**Plumbing:**

1. The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.
3. The repair or replacement of fixtures, water softeners or water purifiers in the same location, provided that it does not require the resizing or rearrangement of any trap or piping.

(5) Section R105.2.2 is amended as follows:

**105.2.2 Repairs.** Application or notice to the *building official* is not required for ordinary repairs to structures, replacement of lamps or the connection of *approved* portable electrical equipment to *approved* permanently installed receptacles. Such

repairs shall not include the cutting away of any framing within ceiling, floor, wall, partition or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required *means of egress*, or rearrangement of parts of a structure affecting the egress requirements; nor shall ordinary repairs include *addition to, alteration of*, replacement or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety.

(6) Section R105.3.3 is added as follows:

**105.3.3 Application for mechanical permit.** Each application for a mechanical permit shall be filed with the code official on a form furnished for that purpose and shall contain a general description of the proposed work and its location, the proposed occupancy of the building(s) and other information required by the code official. The application shall be submitted by a City of Rockford mechanical license holder. In the event that more than one license holder is employed by a firm or corporation, the license holder that is submitting an application shall be listed on that application. Permits are not transferable from one license holder to another.

**Exception:** Work being performed by the owner-occupant of a single family dwelling or owner of a single family dwelling under construction for his or her occupancy upon completion is permitted to plan, install, alter and repair the mechanical and gas piping systems of such dwelling without a license provided that required permits are obtained and such systems comply with the requirements of this code. Any work being performed by other than the owner-occupant shall be performed by a City of Rockford licensed mechanical contractor.

(7) Section R105.3.4 is added as follows:

**105.3.4 Application for plumbing permit.** Each application for a plumbing permit shall be filed with the code official on a form furnished for that purpose and shall contain a general description of the proposed work and its location, the proposed occupancy of the building(s) and other information required by the code official. The application shall be submitted by a State of Illinois plumbing license holder. In the event that more than one license holder is employed by a firm or corporation, the license holder that is submitting an application shall be listed on that application. Permits are not transferable from one license holder to another.

**Exception:** The owner-occupant of a single family dwelling, or owner of a single family dwelling under construction for his or her occupancy upon completion is permitted to plan, install, alter and repair the plumbing systems of such dwelling without a license provided that required permits are obtained and such systems comply with the requirements of the *Illinois Plumbing Code*. The owner-occupant shall not employ other than a State of Illinois licensed plumber to assist him or her.

(8) Section R105.3.5 is added as follows:

**105.3.5 Application for electrical permit.** Each application for an electrical permit shall be filed with the code official on a form furnished for that purpose and shall contain a general description of the proposed work and its location, the proposed occupancy of the building(s) and other information required by the code official. The application shall be submitted by a City of Rockford registered electrician. In the event that more than one registered electrician is employed by a firm or corporation, the registered electrician that is submitting an application shall be listed on that application. Permits are not transferable from one registered electrician to another.

**Exception:** The owner-occupant of a single family dwelling, or owner of a single family dwelling under construction for his or her occupancy upon completion is permitted to plan, install, alter and repair the electrical systems of such dwelling

without a license provided that required permits are obtained and such systems comply with the requirements of this code. The owner-occupant shall not employ other than a City of Rockford registered electrician to assist him or her.

(9) Section R105.7 is deleted and replaced as follows:

~~R105.7 Placement of permit. The building permit or a copy shall be kept on the site of the work until the completion of the project.~~

**R105.7 Placement of Permit.** The permit holder shall post the *permit* in accordance with the building official's instructions on the site of the work in a conspicuous location at all times until the completion of the project and all final inspections have been made and work approved. The building official is authorized to impose a re-inspection fee when the permit is not posted. No inspection of any kind will be performed unless a building permit for the address in question is posted and visible to the inspector.

~~R105.7 Placement of permit. The building permit or a copy shall be kept on the site of the work until the completion of the project.~~

(10) Section R106.3 is amended as follows:

**R106.3 Examination of documents.** The *building official shall examine* may require or may cause to be examined construction documents for code compliance. When construction documents are submitted for review, the requirements of Sections R106.3.1 through R106.5 shall apply to these documents. The absence of construction documents does not invalidate the application of any section in this code.

(11) Section R108.2 is deleted and replaced as follows:

**R108.2 Fee Schedule.** The fees for work shall be as set forth in the Fee Schedule of the City of Rockford Code of Ordinances. No permit can be issued for any person, company or contractor until any outstanding permit fines/fees have been paid in full.

(12) Section R108.5 is deleted and replaced as follows.

**R108.5 Refunds.** No plan review or permit fees shall be refunded.

(13) Section R108.6 is deleted and replaced as follows:

**R108.6 Work commencing before permit issuance.** When a permit is required by this code, and work is started or proceeded prior to permit issuance, fees shall be in accordance with the Fee Schedule of the City of Rockford Code of Ordinance. No permit can be issued for any person, company or contractor until any outstanding permit fines/fees have been paid in full.

(14) R109.1 is amended as follows:

**R109.1 Type of inspections.** For on-site construction, from time to time the building *official*, upon notification from the *permit* holder or his agent, shall make or cause to be made any necessary inspections and shall either approve that portion of the construction as completed or shall notify the permit holder or his or her agent wherein the same fails to comply with this code. Where the phrase "shall be made" or "shall require" is used in Sections 109.1.1, 109.1.2, 109.1.3, 109.1.4, 109.1.5 and 109.1.6 it shall mean "may be made" or "may be required".

(15) R109.1.4 is amended as follows:

**R109.1.4 Frame and masonry inspection.** Inspection of framing and masonry construction shall be made after the roof, masonry, all framing, firestopping, draftstopping and bracing are in place and after the plumbing, mechanical and electrical rough inspections are approved and prior to covering or concealment of any of the aforementioned.

(16) Section R112. 1 is amended and added to as follows:

**R112.1 General.** In order to hear and decide appeals of orders, decisions or determinations made by the *building official* relative to the application and interpretation of this code, there shall be and is hereby created a building board of appeals. The *building official* shall be an ex officio member of said board but shall have no vote on any matter before the board. The building board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the *building official*.

**R112.1.1 Automatic appeals.** In any case where orders or approvals by the Code Official and Director of the Fire Prevention bureau are not in full agreement, the matter shall be resolved in the following manner: the case shall be reviewed by the Community Development Director and the Fire Chief. If agreement cannot be reached, the matter shall be referred to the City Administrator for review and decision. The decision of the City Administrator may then be appealed to the Building Board of Appeals.

**R112.1.2 Building Board of appeals.** The building board of appeals shall be in accordance with section 113 and appendix B of the *International Building Code* as amended.

**R112.1.3 Mechanical Board.** The mechanical board shall be in accordance with section 109–114 of the *International Mechanical Code* as amended.

**R112.1.4 Electrical Commission.** The electrical commission shall be in accordance with Appendix K of the *International Building Code*.

(17) Section R113.4 is amended as follows:

**R113.4 Violation penalties.** Persons who shall violate a provision of this code or who shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical work equipment or systems in violation of *approved construction documents* or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a subject to penalties within the limits provided in state and local laws and punishable by a fine of not less than \$50 and not more than \$750. or by imprisonment not exceeding, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

(18) Section R114.4 is deleted and replaced as follows:

**R114.4 Unlawful continuance.** Any person who shall continue work on any building or structure, mechanical system, plumbing system or electrical system after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties as prescribed by law liable for a fine of not more than \$750.00.

(19) Table R301.2 is deleted and replaced as follows:

TABLE R301.2(1)  
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY <sup>a</sup>	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP <sup>g</sup>	ICE BARRIER UNDERLAYMENT REQUIRED <sup>h</sup>	FLOOD HAZARD <sup>i</sup>	AIR FREEZING INDEX <sup>j</sup>	MEAN ANNUAL TEMP <sup>k</sup>
	Speed <sup>a</sup> (mph)	Topographic effects <sup>b</sup>	Special wind region <sup>c</sup>	Wind-borne debris zone <sup>d</sup>		Weathering <sup>e</sup>	Frost line depth <sup>f</sup>	Terrain <sup>e</sup>					
S0	115	NO	NO	NO	A	SEVERE	42"	WCD/ HEAVY	-4 DEG F	YES	SEE LOCAL	SEE TABLE	SEE TABLE

For S1, 1 psf and 1 psf snow load = 3.0 PSF (PS), 1 mph per ft = 0.447 m/s

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index ("negligible," "moderate" or "severe") for concrete as determined from Figure R301.2(1). The grade of masonry shall be determined from ASTM C 114, C 155, C 162, C 73, C 90, C 109, C 143, C 210 or C 852.
- b. The frost line depth may require deeper footings than indicated in Figure R301.2(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local sublethal termite damage.
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map (Figure R301.2(1)(4)). Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.3.
- e. The outdoor design dry bulb temperature shall be selected from the columns of 37<sup>th</sup> percentile values for winter from Appendix G of the International Building Code. Deviations from the Appendix G temperatures shall be permitted to reflect local climate or local weather experiences as determined by the building official.
- f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
- g. The jurisdiction shall fill in this part of the table with (a) the date this jurisdiction joins into the National Flood Insurance Program (date of adoption of this code or an action for the management of flood hazard zones); (b) the date of the Flood Insurance Study and (c) the panel number and date of the current effective RMI and FEMs or other flood hazard map adopted by the authority having jurisdiction, as amended.
- h. In accordance with Section R301.2.1.5, where there is local flood data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
- i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (39-degree) from Figure R301.2(1), or from the 100-year (99 percent) value in the National Climatic Data Center data table Air Freezing Index, USA Method (Base 32°F).
- j. The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table Air Freezing Index, USA Method (Base 32°F).
- k. In accordance with Section R301.2.1.5, where there is local flood data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
- l. In accordance with Figure R301.2(1), where there is flood data or other documentation of local wind conditions, the jurisdiction shall fill in this part of the table with "YES" and the design specific wind speed. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
- m. In accordance with Section R301.2.1.2, the jurisdiction shall indicate the wind-borne debris wind zone(s). Otherwise, the jurisdiction shall indicate "N/A" in this part of the table.



(20) Section R313 is deleted and replaced as follows:

**Section R313**  
**Automatic Fire Sprinkler Systems**

**R313.1 Townhouse automatic fire sprinkler systems.** An automatic residential fire sprinkler system shall not be required to be installed in townhouses, including additions and alterations to such townhouses.

**Exceptions:**

1. This provision shall not apply where the installation of automatic fire sprinkler systems is required by local municipal ordinance or ordinance of the local fire protection district.

**R313.1.1 Design and Installation.** Automatic residential fire sprinkler systems for townhouses shall be designed and installed in accordance with the current edition of The Illinois Plumbing Code and NFPA 13 D.

**R 313.1.2 Other Code Requirements.** All structures built without automatic fire sprinkler systems shall comply with all code requirements of the *International Residential Code* for non-sprinklered construction.

**R313.2 One- and two-family dwellings automatic fire systems.** An automatic residential fire sprinkler system shall not be required to be installed in one- and two-family dwellings, including additions and alterations to such dwellings.

**Exceptions:**

1. This provision shall not apply where the installation of automatic fire sprinklers is required by local municipal ordinance or ordinance of the local fire protection district.

**R313.2.1 Design and Installation.** Automatic residential fire sprinkler systems for one- and two-family dwellings shall be designed and installed in accordance with the current edition of The Illinois Plumbing Code and NFPA 13 D.

**R 313.2.2 Other Code Requirements.** All structures built without automatic fire sprinkler systems shall comply with all code requirements of the *International Residential Code* for non-sprinklered construction.

(21) Section R322.1.5 is amended as follows:

**R322.1.5 Lowest floor.** The lowest floor shall be the floor of the lowest enclosed area, including the basement, and excluding any unfinished flood-resistant enclosure that is useable solely for vehicle parking, building access or limited storage provided that such enclosure is not built so as to render the building or structure in violation of this section.

(22) Section R322.2.1 (1 and 3) amended to read as follows:

**R322.2.1 Elevation requirements.**

1. Buildings and structures erected within coastal high hazard areas and, in flood hazard areas not designated as Coastal A Zones, shall be elevated so that the bottom of the lowest horizontal structural members supporting the lowest floor, with the exception of piling, pile caps, columns, grade beams and bracing, is elevated to or above the base flood elevation plus 1 foot (305 mm) or the design flood elevation, whichever is higher. shall have the lowest floors elevated 12" (30.5 cm) above the design flood elevation.



2. In areas of shallow flooding (AO Zones), buildings and structures shall have the lowest floor (including basement) elevated to a height above the highest adjacent grade of not less than the depth number specified in feet (mm) on the FIRM plus 1 foot (305 mm), or not less than 3 feet (915 mm) if a depth number is not specified.

3. Basement floors that are below grade on all sides shall be elevated to or above base flood elevation plus 1 foot (305 mm), or the design flood elevation, whichever is higher.

4. Garage and carport floors shall comply with one of the following:

4.1. They shall be elevated to or above the elevations required in Item 1 or Item 2, as applicable.

4.2. They shall be at or above grade on not less than one side. Where a garage or carport is enclosed by walls, the garage or carport shall be used solely for parking, building access or storage. Exception: Enclosed areas below the elevation required in this section, including basements with floors that are not below grade on all sides, shall meet the requirements of Section R322.2.2.

(23) Section R403.3.5 is added as follows:

**R403.3.5 Detached garages or sheds.** The code official may approve a continuous slab on ground foundations which are located where adequate subsoil drainage frost protection is provided and the following conditions are met:

1. Structure is non-occupiable, unconditioned, detached, of Use Groups S or U, does not contain any masonry and does not exceed (1) one story or 25 feet (7.62 m) in height.
2. Slab/foundation may not bear on peats, organic or other questionable soils.
3. Slab thickness is not less than 4" with a minimum of 6" x 6" 10#/10# WWF reinforcing.
4. The perimeter of the slab turns down to a minimum of 12" below grade and is reinforced with a minimum of 1 continuous [minimum 12" tied laps] #4 steel reinforcing bar.
5. A minimum of 4 inches of screened and washed gravel or crushed stone under entire slab. The grade surrounding the building shall fall a minimum of 6" within the first 10'.

(24) Chapter 11 ENERGY EFFICIENCY is deleted and replaced as follows:

**CHAPTER 11 ENERGY EFFICIENCY**  
**Section 1101 GENERAL**

**1101.1 SCOPE.** The provisions of the Illinois Efficient Buildings Act adopts the International Energy Conservation Code with State of Illinois amendments.

(25) Section N1101.4 (R102.1.1) is deleted and replaced as follows as follows:

**N1101.4 (R102.1.1) Above code programs.** The ~~building official~~ or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Buildings ~~approved~~ in writing by such an energy efficiency program shall be

considered in compliance with this code. The requirements identified as “mandatory” in this chapter, as applicable, shall be met.

**N1101.4 (R102.1.1) Above code programs.** Compliance shall be demonstrated by meeting the requirements of the current *International Energy Conservation Code* as mandated by the State of Illinois.

(26) Section M1201.2 is amended as follows:

**M1201.2 Application.** In addition to the general administration requirements of Chapter 1, the administrative provisions of this chapter shall also apply to the mechanical requirements of Chapters 12 through 25, and the Authority Having Jurisdiction (AHJ).

(27) Section M1201.3 is added as follows:

**M1201.3 Licenses and permits.** Mechanical licenses and permits shall be obtained in accordance with Chapter 1 and the 2021 International Mechanical Code as amended.

(28) Section M1203 is added as follows:

### **M1203 Heating Requirements**

**M1203.1 Heating Required.** Heat/supply air is required in all rooms (including bathrooms).

#### **Exception:**

1. Unoccupied storage or other unoccupied spaces.

(29) Section M1401.3.1 is added as follows:

**1401.3.1 Calculations Required.** The permit applicant shall submit a room by room Manual J, S, and D calculations for all HVAC equipment and/or replacement prior to permit issuance.

(30) Section M1401.6 is added as follows:

**M1401.6 Furnace repair.** The use of furnace cement or welding for the repair of a furnace heat exchanger is prohibited.

(31) Section M1408 Vented floor furnaces is deleted.

(32) Section M1602.2 - 4. is amended as follows:

~~4. Return air shall not be taken from a closet, bathroom, toilet room, kitchen, garage, mechanical room, boiler room, furnace room or unconditioned attic.~~ openings for HVAC systems for all dwelling units, including manufactured and modular homes shall comply with all of the following:  
(Remainder unchanged)

(33) Section G2415.1.1 (404.1.1) is added as follows:

### **Additional Piping Requirements**

1. Piping systems greater than 2 pounds per square inch (PSIG) shall be welded.
2. Piping sizes over 2 inches shall be welded.

(34) Section G2415.2.1 is added as follows:

**G4241.2.1 (404.2.1) Prohibited Use.** Corrugated stainless steel tubing (CSST) shall not be installed outdoors.

(35) Section G2415.3 is amended as follows:

**G2415.3 (404.3) Prohibited locations.** Piping shall not be installed in or through a ducted supply, return or exhaust, or a clothes chute, chimney or gas vent, dumbwaiter or elevator shaft. Piping installed downstream of the point of delivery shall not extend through any townhouse or residential unit other than the unit served by such piping.

(36) Section G2415.12 (404.12) is amended as follows:

**G2415.12 (404.12) Minimum burial depth.** Underground piping systems shall be installed a minimum depth of 18 inches (457.2 mm) inches below grade ~~except as provided for in Section G2415.12.1.~~ Piping systems and electrical wiring shall be separated a minimum of 12 inches (304.8 mm) horizontal and a minimum of six inches (152.4 mm) vertical when placed.

~~**G2415.12.1 (404.12.1) Individual outside appliances.** Individual lines to outdoor lights, grills or other appliances shall be installed not less than 8 inches (203 mm) below finished grade, provided that such installation is *approved* and is installed in locations not susceptible to physical damage.~~

(37) Section G2422.1 is amended as follows:

**G2422.1 (411.1) Connecting Appliances.** Except as required by section 411.1.1, appliances shall be connected to the piping system by one of the following:

1. Rigid metallic pipe and fittings. Stationary gas appliances and the following fixtures: Water heaters, furnaces and boilers in commercial or residential applications. All package heating fixtures/equipment shall be piped with rigid piping.
2. Corrugated stainless steel tubing (CSST) where installed in accordance with the manufactures' instructions.

(38) Section G2445 (621) Unvented Room Heaters is deleted.

(39) Section P2501.1 is amended as follows:

**P2501.1 Scope.** ~~The provisions of this chapter shall establish the general administrative requirements applicable to plumbing systems and inspection requirements of this code.~~ and the Illinois Plumbing Code including local amendments shall govern the installation of plumbing. All work shall be performed by State of Illinois licensed plumbers in accordance with the Plumbing Licensing Act.

(40) Appendix AE "MANUFACTURED HOUSING USED AS DWELLINGS" is added as part of this Code.

(41) Appendix AF "RADON CONTROL METHODS" is added as part of this Code.

(42) Appendix AG “PIPING STANDARDS FOR VARIOUS APPLICATIONS” is added as part of this Code.

(43) Appendix AH “PATIO COVERS” is added as part of this Code.

(44) Appendix SJ “EXISTING BUILDINGS AND STRUCTURES” is added as part of this Code.

(45) Appendix AM “HOME DAY CARE—R-3 OCCUPANCY” is added as part of this Code.

(46) Appendix AX “DEMOLITION” is created and added as part of this Code. Appendix AX reads as follows:

### **SECTION AX101**

**AX101.1 Scope.** This appendix provides perspective and performance-based requirements for the demolition of residential structures. Other methods of demolition may be approved with the code official’s written permission.

**AX101.2 Construction Document Requirements.** Unless granted a written exception by the *building official*, construction documents shall not be approved and a permit shall not be issued without affirmations of the following in the construction documents:

1. Any and all utilities shall be properly located and disconnected.
2. The demolition contractor shall remove all of the foundation walls, slabs, sidewalks, driveways, parking areas around structure and fences within property lines and basement. The Contractor shall also remove all fences and scrub trees within property lines, remove junk vehicles, remove concrete slabs, foundations, and all debris to provide a clean site.
3. All logs, bushes, saplings, landscaping, shrubs, brush, and stumps of a diameter less than 6” shall be completely removed.
4. All accessory buildings, as defined by the City of Rockford Zoning Ordinances, shall be completely removed. An accessory building cannot remain on a lot without an accompanying principal building. An accessory building shall not be re-categorized as a principal building.
5. No debris shall be used as fill material. The entire parcel shall be left in a level, neat, safe and sanitary condition. Openings, holes and voids shall be filled up to the surrounding ground level with gravel, crushed road stone or other approved material compacted to 95% compaction in accordance with ASTM D-698 and acceptable to the City Engineer.
6. Upon the completion of the demolition and removal operations, the final grade of the whole properties must consist of a smooth grade consistent with the grades of the surrounding properties.
7. Contractor must finish grading of all disturbed areas with no less than 4” of topsoil single screened through a 1” screen or smaller. Topsoil shall be sourced from a clean borrow source or

supplier. Topsoil consisting of Friable Sandy Loam that can be pulverized under normal hand pressure or Sandy Clay Loams with the lowest clay proportion may also be acceptable.

8. Upon the completion of grading, the property shall be properly seeded with a type of grass seed or other floor covering native to the region or approved by the *building official*. The contractor shall install erosion control blankets around the perimeter of all disturbed areas. The installation shall be no less than 8 feet wide and installed to the manufacturer's instructions.

9. All conditions set forth within this part shall be met to the satisfaction of the *building official*, any determination of the *building official* as to the scope of demolition needed pursuant to this section shall be appealable solely to the Building Board of Appeals.

#### **AX102 Additional Demolition Requirements**

1. **Pedestrian protection.** The work of demolishing any building shall not be commenced until pedestrian protection is in place as required by this chapter.
2. **Means of egress.** A *horizontal exit* shall not be destroyed unless and until a substitute *means of egress* has been provided and *approved*.
3. **Vacant lot.** Where a structure has been demolished or removed, the vacant lot shall be filled and maintained to the existing grade or in accordance with the ordinances of the jurisdiction having authority.
4. **Water accumulation.** Provision shall be made to prevent the accumulation of water or damage to any foundations on the premises or the adjoining property.
5. **Utility connections.** Service utility connections shall be discontinued and capped in accordance with the *approved* rules and the requirements of the applicable governing authority.
6. **Fire safety during demolition.** Fire safety during demolition shall comply with the applicable requirements of this code and the applicable provisions of Chapter 56 of the *International Fire Code*