



4700 Drexel Drive,  
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## Department of Building Inspection

### **Town of Highland Park- Significant 2024 ICC changes**

See below for helpful links below for more information. Due to Copyright Laws, I can not provide the pdf's but can share the links below. You can copy and paste them into a URL for reference only-

#### National Association of Home Builders

<https://www.nahb.org/-/media/NAHB/advocacy/docs/top-priorities/codes/code-adoption/significant-code-changes-2024-irc.pdf?rev=a90577b5da8d4931b8beb20f21105df2&hash=D95B3F0AC6ADA32006389A67428A19A5>

#### National Association of Home Builders- Estimated Costs of the 2024 IRC changes

<https://www.nahb.org/-/media/NAHB/advocacy/docs/top-priorities/codes/code-adoption/estimated-costs-of-2024-irc-changes.pdf?rev=ea36f1c3d5ab4c47b04f5c5b233738e1&hash=2117BED78F03126767B463A5399C0F56>

#### International Code Council

<https://www.iccsafe.org/wp-content/uploads/Session-30-and-58-2024-IBC-Significant-Changes.pdf>

#### US Dept. of Energy

<https://www.energycodes.gov/sites/default/files/2024-09/2024%20IECC%20Webinar%20-%20Full%20Presentation.pdf>



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### **The 2024 International Residential Code -IRC**

- Imaginary lot lines are added for calculating fire separation distance when considering multiple dwellings on a single lot- R302.1
- Many requirements for energy storage systems are added- R330.
- New protection requirements for storage batteries in garages are added- R330.8.
- Sleeping loft requirements added for habitable attic style lofts and tiny home style lofts now have maximum size limits to meet an exception- R315.
- Ledger Flashing required with water resistive barrier for deck ledger- R507
- The final test of the DWV system may be visual P2503.5.2.
- Air exhaust openings now allowed near operable windows and doors- M1504.3.
- A2L refrigerants are added as an option for cooling equipment- M1404.
- Solvent cement joints for CPVC pipe are allowed above and below ground-P2906.9.
- Snow, wind, and seismic maps updated R301.2.1.1.
- Vapor Retarder changed back to 6 mil poly R506.3.3.

### **The 2024 International Building Code- IBC**

- 2024 IBC includes provisions for tornado loadings IBC 1603.1.4.
- Updated wind, earthquake, and snow loads IBC chapter 1600.



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- The updated design rain loads are now based on the summation of the static head, the hydraulic head, and the ponding head IBC 1603.1.9.
- Updates to Risk Categories including Photovoltaic (PV) panel systems and facilities providing power generation IBC 1600.
- Updated and expanded provisions for Temporary Structures IBC 3103.
- New provisions regarding the wind resistance of aggregate-surfaced roofs IBC 1504.
- Roof Coverings: Updated provisions for underlayment IBC 1507.1.1.
- New special inspection provisions for metal building systems 1705.2.6.
- New provisions for structural concrete reinforced with glass-fiber reinforcement IBC 1901.2.1.
- Concrete: Chapter 19 on Concrete has been Updated and reformatted.
- Masonry: TMS 402 and TMS 602 references have been updated to the latest 2022 editions.
- Increased the allowable height of a Group R-2 occupancy building with an NFPA 13R sprinkler system IBC 504.
- Occupiable space requirements now apply if a roof is usable for anything more than maintenance or repair and occupants must have access to multiple egress options from a story based on the occupant load and the story requirements- IBC Definitions.
- Adult changing tables regulations are added where they are required in large assembly and mercantile, college lecture hall/classroom buildings and highway rest stops, or provided- IBC 1110.4.



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- Fire-resistance-rated Wall Continuity: Updates on how supporting construction for exterior walls is to be fire-resistance-rated, especially in the case of a parapet IBC 705.6.
- Openings in Shaft Enclosures: Additional exceptions are provided for shaft enclosures, including new allowances for openings and penetrations IBC 713.
- Carbon Monoxide Detection: Carbon monoxide (CO) detection is now required in all occupancies where a CO-producing device is present. Detection and notification can be addressed in several ways IBC 915.
- Vapor retarders: Several updates have been made to the vapor retarder provisions for consistency with the IRC and IECC. The changes also provide additional options and better guidance for allowable types and locations of permitted vapor retarders IBC 1907.4.
- Vertical and lateral Flame propagation compliance methods: Clarification has been provided as to when testing in accordance with NFPA 285, related to vertical and lateral flame propagation, is required. Previously this information was scattered in a variety of locations within Chapters 14 and 26.

### **The 2024 International Mechanical Code IMC**

- An identification requirement was added for Group A2L and B2L refrigerants – IMC 202 and 1103
- The requirements for machinery rooms containing Group A2L refrigerants were changed and Group B2L refrigerants were added to the provisions IMC 1104.2 .
- Provisions prohibiting the use of domestic ductless range hoods in Groups I-1 and I-2 were removed- IMC 505.



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- Limits for the use of Group A1 and A2L refrigerants changed in high probability systems used for human comfort, unless permitted as excepted- IMC Chapter 1.
- UL 2158A Standard was added to the requirements for commercial dryer exhaust.
- Ventilation requirements for outpatient healthcare facilities to match the requirements in ASHRAE 62.1-2019 - IMC 504.10.
- Addition of a new minimum landing at the roof hatch for personnel to safely use the hatch when accessing the roof for repair and maintenance IMC 306.5.
- Addition of a new testing option for grease ductwork IMC 506.3.2.5.2.
- Requirements for steam baths were added IMC 931.
- A new standard requirement for refrigeration systems containing carbon dioxide was added IMC Chapter 11.

### **The 2024 International Plumbing Code IPC**

- Requirement added for tracer wire for buried plastic sewer piping- IPC 306.2.4.
- Option added for vacuum testing of DWV piping IPC 312.4.
- Provisions added for support of buried piping beneath building where expansive soil conditions exist IPC 305.8.2.
- Plumbing fixture requirements significantly updated for various Group I occupancies- IPC Chapter 4.
- Exception added for allowing special locking mechanism for doors to multiple-user toilet facilities IPC 403.3.6.



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- Plastic pans for gas-fired water heaters are required to be tested in accordance with ASTM E84 or UL 723 IPC 504.7.
- Installation standards added for solvent-cemented plastic piping joints IPC 605.14.2.
- Standards added for chemical waste piping materials IPC 803.

### **The 2024 International Fuel Gas Code -IFGC**

- [BS] 302.3.1 Engineered wood products. Sections 302.3.2, 302.3.3, and 302.3.4 have all been deleted.
- 304.1 General. The entire section is new for the 2024 Codes. Existing code language has been deleted.
- 304.12 Protection from fumes and gases. Existing code language has been deleted. The entire section is new for the 2024 Codes.
- 403.6 Workmanship and defects. Existing code language has been rewritten and additional code language has been added for the 2024 Codes.
- Appendix C - C105.2, Test for combustion air and vent drafting for natural draft and Category I appliances. Existing code language has been deleted. The entire section is new for the 2024 Codes (appendices are voluntary and apply only if specifically adopted).



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### **The 2023 National Electrical Code**

- GFCI is replaced with “listed Class A GFCI” -NEC 210.8(A)(6)
- GFCI expanding in Kitchen and Laundry to all appliances 125-250V (ranges, clothes dryers, etc)- NEC 210.8(D)
- GFCI protection required specifically for garages, accessory building, boathouses - NEC 210.8(F)
- EV requires individual branch circuits for high-power charging -NEC 625.50.
- EV power export equipment can be part of an interconnected power system for backup.
- Emergency disconnect on the outside are required for all feeders that supply one and two family dwelling for first responders NEC 225.41
- Replacement of service equipment requires a new exterior emergency disconnect. Exception: Where only meter sockets, service entrance conductors, or related raceways and fittings are replaced, the requirements don't apply NEC 230.85.
- Receptacles installed in accordance with 680.73 (receptacles for hydromassage bathtubs) are allowed. Exception No. 4: to allow a single receptacle for an electronic toilet or personal hygiene device such as an electronic bidet seat. The receptacle is required to be readily accessible and not located in the space between the toilet and the bathtub or shower- NEC 406.9

NOTE: NOT ALL CHANGES ARE MENTIONED ABOVE (ONLY SIGNIFICANT CHANGES)



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FOR IFC CHANGES, PLEASE CONTACT THE FIRE MARSHAL

SEE ALL LOCAL AMENDMENTS FOR ANY ADDITIONAL CHANGES TO ALL CHANGES  
NOTED ABOVE