

CITY OF HIGHLAND PARK

ORDINANCE NO. 071-2019

AN ORDINANCE AMENDING CHAPTERS 170 AND 171 OF "THE HIGHLAND PARK CODE OF 1968," AS AMENDED, REGARDING THE CITY'S BUILDING CODE AND PLUMBING CODE

WHEREAS, Chapter 170 of "The Highland Park Code of 1968," as amended ("*City Code*"), sets forth certain regulations and restrictions known as the "Highland Park Building Code" ("*Building Code*") to insure the public safety, health and welfare as affected by building construction and to secure safety to life and property from all hazards incident to the occupancy of buildings, structures or premises; and

WHEREAS, the Building Code adopts by reference, with various modifications, certain state and model codes, including the International Energy Conservation Code ("*IECC*"); and

WHEREAS, Chapter 171 of the City Code sets forth certain regulations and restrictions known as the "The Highland Park Plumbing Code" ("*Plumbing Code*") to govern the design and installation of new plumbing or plumbing systems and the alteration of plumbing systems within the City; and

WHEREAS, the Plumbing Code: (i) adopts by reference the Illinois Plumbing Code, 77 Ill. Adm. Code 890.110 et. seq., which is promulgated by the State of Illinois to serve as the minimum standard for the design and installation of plumbing in the State, pursuant to 225 ILCS 320/36; and (ii) includes certain supplemental regulations and restrictions; and

WHEREAS, the City Council desires to further amend the Building Code and the Plumbing Code to: (i) adopt by reference the updated State of Illinois version of the IECC, the Illinois Accessibility Code, and the updated Illinois Plumbing Code; and (ii) update and modify the supplemental Plumbing Code regulations and restrictions; and

WHEREAS, the City Council has determined that it will serve and be in the best interests of the City to amend the Building Code and the Plumbing Code pursuant to this Ordinance;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF HIGHLAND PARK, LAKE COUNTY, ILLINOIS, as follows:

SECTION ONE: RECITALS. The foregoing recitals are incorporated into, and made a part of, this Ordinance as the findings of the City Council.

SECTION TWO: ADOPTION OF THE ILLINOIS ENERGY CONSERVATION CODE. Section 170.035, titled "Adoption of the International Energy Conservation Code," of Chapter 170, titled "Building Code," of Title XVII, titled "Building Regulations," of the City Code is hereby re-titled and amended further to read as follows:

"Sec. 170.035 Adoption of the International ~~Illinois~~ Energy Conservation Code.

For the purpose of establishing the minimum regulations governing the consumption of energy resources in buildings and structures, the ~~International~~ Illinois Energy Conservation Code, 2012 Edition as adopted and published

pursuant to 71 Ill. Admin. Code Part 600 et seq., is hereby adopted, and by this reference, incorporated as if fully set forth herein."

SECTION THREE: ADOPTION OF ILLINOIS ACCESSIBILITY CODE. Chapter 170, titled "Building Code," of Title XVII, titled "Building Regulations," of the City Code is hereby amended to add a new Article XVIII, which Article XVIII hereafter reads as follows:

"ARTICLE XVIII. - ILLINOIS ACCESSIBILITY CODE

Sec. 170.250 Adoption of the Illinois Accessibility Code.

For the purpose of establishing minimum scoping and technical design requirements to ensure that the built environment in the City is designed, constructed, and altered to be accessible to and usable by all, including individuals with disabilities, the Illinois Accessibility Code, as adopted and promulgated pursuant to 71 Ill. Admin. Code Part 400, is hereby adopted, and by this reference, incorporated as if fully set forth herein."

SECTION FOUR: PLUMBING CODE. Chapter 171, titled "Plumbing Code", of Title XVII, titled "Building Regulations", of the City Code is hereby amended in its entirety, and will hereafter read as set forth in Exhibit A attached to and, by this reference, made a part of this Ordinance.

SECTION FIVE: PUBLICATION. The City Clerk is hereby directed to publish this Ordinance in pamphlet form pursuant to the Statutes of the State of Illinois.

SECTION SIX: EFFECTIVE DATE. This Ordinance will be in full force and effect from and after its passage, approval, and publication in the manner provided by law; provided, however, that this Ordinance will not be effective prior to January 1, 2020.

AYES: Mayor Rotering, Councilmen Stolberg, Stone, Kaufman, Blumberg, Knobel, Holleman

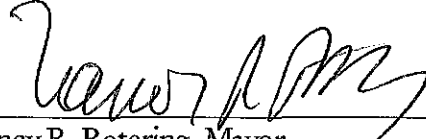
NAYS: None

PASSED: October 28, 2019

ADOPTED: October 28, 2019

PUBLISHED IN PAMPHLET FORM: October 29, 2019

ORDINANCE NO. O71-2019



Nancy R. Rotering, Mayor

ATTEST:



Gladys S. Neukirch, City Clerk



EXHIBIT A

PLUMBING CODE

Chapter 171 - PLUMBING CODE

ARTICLE I. - GENERAL PROVISIONS

Sec. 171.001. - Short title.

This Chapter shall be known and cited as "The Highland Park Plumbing Code."

Sec. 171.005. - Definitions.

(A)—For the purpose of this Chapter, the following terms or words shall have the meaning indicated in this Section. The definition as contained in this Section shall take precedence over any other accepted meaning, including those contained in any reference material referred to in this Chapter.

Plumbing system. The plumbing system includes the water service piping; water supply and distribution pipes; plumbing fixtures and traps; soil, waste and vent pipes; building drains, including their respective connections, devices and appurtenances within the property lines of the premises, and water-treating or water-using equipment. The plumbing system does not include a storm sewer, storm water or ground water management system or any part thereof. For storm sewer, storm water and ground water management requirements, refer to Section 51.300 of the City Code.

Public or public use. In the classification of plumbing fixtures, public or public use applies to all fixtures except those which are located in a private dwelling.

Sec. 171.010. - Illinois State Plumbing Code adopted by reference.

The Illinois State Plumbing Code of 2004 (77 Ill. Adm. Code 890.110 *et seq.*), is hereby adopted, and by this reference, incorporated as if fully set forth herein. When any provision of this chapter conflicts with a provision of the Illinois State Plumbing Code, the stricter regulation shall govern.

Sec. 171.011. – Amendments to Illinois State Plumbing Code.

The following amendments to the Illinois State Plumbing Code shall control whenever a conflict arises between the amendments set forth in this Section and the provisions of the Illinois State Plumbing Code.

(A) Section 890.180 shall be amended to add the following subsections g) and h):

“g) Sanitary through Foundation Wall. Ductile iron pipe shall be the required material for any sanitary sewer (building drain) passing through a foundation wall and the foundation overdig.” When a sanitary (building drain) sewer passes through the foundation wall, the use of a wye and 45 degree combination fitting(s) shall be required with a full size cleanout installed to service the horizontal sewer line as it exits through

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the foundation. This cleanout shall be installed directly opposite to the flow of the horizontal sewer.

“h) Overhead Plumbing. All new buildings with basements, floors, rooms or occupancy areas below grade level at the building site and served by a public or private sewer system shall have overhead plumbing.”

(B) Section 890.570 d) 1) shall be amended to read as follows:

“Gas and oil interceptors shall be of durable fiberglass materials suitable for gas and oil. Fiberglass interceptors shall not be used for receiving any substance other than gas and oil. Poured concrete interceptors are prohibited.”

(C) Section 890.570 d) shall be amended to add the following to paragraph (10):

“10) Parking and Driveways. Gas and oil interceptors located within vehicular parking areas or driveways shall be encased in concrete a minimum thickness of six inches on the bottom and all sides.”

(D) Appendix A, Table A, shall be amended to delete the following provisions:

Building Drainage/Vent Pipe

Delete: “12) Polyvinyl Chloride (PVC) Pipe with Cellular Core, ASTM F891-2010, ASTM F1760-2011.”

Materials for Building Sewer

Delete: “1) Acrylonitrile Butadiene Styrene (ABS) Pipe, ASTM D 2661-2011, CSA B181.1-2011 in B1800.”

“8) Polyvinyl Chloride (PVC) Pipe with Cellular Core, ASTM F 891-2010.”

Materials for Water Service Pipe

Delete: “1) Acrylonitrile Butadiene Styrene (ABS) Pipe, ASTM D 1527-2005.”

“4) Chlorinated Polyvinyl Chloride (CPVC) Pipe, ASTM D 2846/D 2846M-2009be1, ASTM F 441/F 441M-2012, ASTM F 442/F 442M-2012, CSA B137.6-2009 in B137.”

“8) Poly Butylene (PB) Pipe/Tubing, CSA B137.8-2009 in B137.”

Additions are bold and double-underlined; deletions are struck through.

Materials for Water Distribution Pipe

Delete: “4) Chlorinated Polyvinyl Chloride (CPVC) Pipe, ASTM D 2846/D 2846M-2009be1, ASTM F 441/F

441M-2012, ASTM F 442/F 442M-2012, CSA B137.6-2009 in B137.”

“5) Cross Linked Polyethylene Distribution Systems, ASTM F 876-2013a ,ASTM F877-2011a,ASTM F 1807-2012

“7) Poly Butylene (PB) Pip/Tubing, CSA B137.8-2009 in B137.”

“8) Polypropylene Pipe, ASTM F 2389-2010.

“9) Polyvinyl Chloride (PVC) Pipe, ANSI/NEMA Z535.1-2006 (R2011), ASTM D 1785-2012,

ASTM D 2241-2009, ASTM D 2672-2009, CSA B137.3-2009 in B137.”

Sec. 171.015. - Conformity to Illinois Plumbing License Law Required.

No person shall engage in the business of plumbing in the City of Highland Park, either as a plumbing contractor, journeyman plumber, or apprentice plumber, except in accordance with the license requirement of the Plumbing License Law of the State of Illinois.

Sec. 171.020. - Administrative authority.

The Director of Community Development is hereby designated as the Administrative Authority for the purpose of enforcing the provisions of this Chapter.

Sec. 171.025. - Plumbing Inspector.

The **City’s Certified** Plumbing Inspector shall be the authorized representative of the Director of Community Development and shall carry out the duties of enforcing the requirements of this Chapter, including the issuance of permits, inspections, issuance of notices, and preparation of formal complaints for processing by the Corporation Counsel.

Sec. 171.026. - Bonds.

~~No bond required under the provisions of this Chapter shall be approved unless it is conditioned, in addition to any other requirements set forth in this Chapter, that the principal shall faithfully observe and fully comply with the provisions of all applicable ordinances of the City, and shall indemnify and hold harmless the City of Highland Park and any other person who may be injured thereby, against all or any loss, costs, damage or expense incurred directly or indirectly by reason of (1) failure of the principal to observe any ordinance pertaining to the nature of the work for which the bond is given; (2) failure of the principal to observe all rules and regulations established under the authority of any ordinances of the City of Highland Park pertaining to the nature of the work in connection with which the bond is given; (3) negligence of the firm or its employees performing or protecting any work in connection with which the bond is given; and/or (4) failure of the principal to complete~~

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any error or omission which fails to comply with the applicable ordinances of the City of Highland Park. ~~ARTICLE II. PERMIT, BOND, AND REGISTRATION REQUIREMENTS~~

~~Sec. 171.050. Permit and Bond Requirements for Plumbers, Homeowners, and Drain (Sewer) Layers.~~

- ~~(A) — *Permits and Bonds for Plumbers.* No plumbing permit shall be issued to any plumber or plumbing contractor unless such plumber or plumbing contractor shall first submit a copy of his annual State of Illinois contractor license, registration and bond to the Administrative Authority which shall remain on file with the City. All annual contractor licenses are required to display the "055" prefix indicating State of Illinois license, registration and bond. Proof of such license, registration and bond shall preclude the necessity of providing a separate bond for the City.~~
- ~~(B) — *Permits for Homeowners.* Homeowners may perform the planning, installation, alteration, or repair of the plumbing system in their homes, as defined and permitted under the Illinois Plumbing License Law, only upon the successful completion of a proficiency examination administered by the City with a minimum score of 75 percent of the total questions answered correctly within a three hour time limit. No bond shall be required for plumbing permits issued to homeowners.~~
- ~~(C) — *Permit for Drain (Sewer) Layers.* No permit to conduct sewer installation, maintenance, or repair shall be issued to any drain layer until the requirements of Sections 171.026, 171.055, and 171.065(A), (B), (C), and (D) have been met.~~
- ~~(D) — The City shall have the right, but not the obligation, to refuse to issue a permit, or suspend or revoke a permit already issued, to a plumbing contractor or drain layer contractor, if that contractor refuses to adhere to the requirements of this Chapter, or has demonstrated a past history of performing substandard work, or non-cooperation with regard to City personnel, or directives, or refuses to correct any installed work, that in the interpretation of the Administrative Authority, does not meet the requirements of this Chapter.~~

~~Sec. 171.055. Cash deposit to protect public property.~~

~~The plumbing contractor, employing plumber, self-employed journeyman plumber, drain (sewer) layer, the property owner, or the general contractor shall deposit with the City Collector for each sewer or water tap installation for which a permit is obtained, cash or a letter of credit at the rate set forth in the Annual Fee Resolution or more, if deemed necessary by the Superintendent of Streets. From this amount shall be deducted any cost of repair or replacement for any damage done to public property by the contractor in the prosecution of the work for which permit has been issued, if the contractor fails to repair, replace or restore the damaged public property in as good or better than the original condition, or failure of the contractor to maintain the construction site in a safe, satisfactory and clean condition with required barricades, caution lights and removal of debris. Such deposit or the residuum thereof in event of deduction for damage to public property, shall be returned upon application~~

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of the depositor and after inspection and approval of the work by the Superintendent of Streets.

Sec. 171.060. Revocation of registration; notice and hearing.

~~Any firm which shall employ plumbers in their business who are not licensed under the Plumbing License Law of the State of Illinois shall have their certificate of registration revoked, and no new certificate of registration shall be issued to such firm for a period of one year after such revocation. Such firm shall be entitled to a hearing prior to such revocation, before the City Council, and to a notice of such hearing given by registered mail at least ten days prior to such hearing, such notice to be addressed to the business address last registered by said firm.~~

Sec. 171.065. Drain (Sewer) Layer, Registration, Bond; Scope of Work.

- (A) ~~A drain layer may engage in the work of installing, maintaining, and repairing a sanitary sewer service line from a point five feet outside the foundation walls of a building to its connection to a sanitary lateral or main in the street, alley, easement; or other approved disposal terminal holding private or domestic sewage.~~
- (B) ~~A drain layer shall not devise any system of plumbing as defined under the Illinois Plumbing License Law (225 ILCS 320/2), nor install any piping, fixtures, devices or appurtenances including their respective connections, which are integral parts of a plumbing system.~~
- (C) ~~A drain layer may engage in the work of installing, maintaining, and repairing a storm sewer, storm water management system or ground water management system.~~
- (D) ~~Every person, firm or corporation who shall engage in business as a drain layer, as defined above, shall be registered with the City of Highland Park and shall give a license surety bond to the City in the amount of \$20,000.00. This surety bond shall be required to incorporate the language of a City of Highland Park rider which shall be furnished to the contractor by the Building Division for submittal to, and incorporation by, the bonding company.~~

ARTICLE III. II. - PLUMBING AND SEWER CONNECTION PERMITS

Sec. 171.200. Plumbing permits.

- (A) ~~No plumbing, sanitary sewer, or storm sewer work shall be installed, altered or changed in any building or structure, or upon any property within the corporate limits of the City of Highland Park until a permit for such installation, alteration, or change shall have been obtained from the Director of Community Development. Said permit shall be issued only to a plumbing contractor, employing plumber, self-employed journeyman plumber, or drain (sewer) layer (the latter only when engaging in the work defined in Section 171.065, registered and bonded under Sections 171.050, 171.055, and 171.060. After the permit shall have been issued by the Director of Community Development, no change or modification in the plans or specifications, nor in any work to be performed pursuant thereto, shall be made, unless such change~~

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~~shall first have been submitted to and approved by the Director of Community Development.~~

- ~~(B) Refer to Section 171.050(B) of this Chapter regarding plumbing permits for homeowners.~~

Sec. 171.205. - Sewer connection permits and dye test requirements.

- (A) No person, firm or corporation may connect any building storm or sanitary drain with any public storm or sanitary sewer now existing or hereafter constructed, until a permit for such connection shall have been obtained from the Director of Community Development, **which permit shall not be issued prior to payment by the applicant of the fee therefor, in the amount set forth in the Annual Fee Resolution** and also paying to the City Collector the sanitary sewer connection charge hereinafter provided.
- (B) A dye test of all existing downspouts and sump pump drains shall be required for structure additions or renovations of 50 square feet or greater. This test shall be performed by the Department of Public Works. The results, which determine a proper connection to the City infrastructure, shall be provided to the Building Division to be utilized in the permitting process. Permit approval and issuance shall be contingent upon the terms and conditions of the dye test and any corrections necessary to comply with all sections of this Code.

~~Sec. 171.210. - Duration of permits; extensions.~~

~~All plumbing and sewer permits shall be valid only for a period of six months from the date of the issuance thereof; provided, however, that if work is commenced within said six month period, the life of such permit shall be automatically extended for a period not longer than one year from date of its original issuance. Upon application within the period during which such a permit is valid, plumbing and sewer permits may be extended without additional fee for a period not exceeding six months from the first expiration date thereof.~~ ARTICLE IV. **III.** - FEES FOR PLUMBING AND SEWER CONNECTION PERMITS

Sec. 171.225. - Plumbing permit fees.

- (A) *New plumbing fixtures.* The fee for the installation of each plumbing fixture shall be in the amount set forth in the Annual Fee Resolution.
- (B) *Replacement plumbing fixtures.* The fee for the replacement of any plumbing fixture requiring no changes in the water supply or drainage piping to the fixture shall be ~~the rate~~ **in the amount** set forth in the Annual Fee Resolution per fixture.
- ~~(C) *Lawn irrigation systems.* The fee for the installation of a lawn irrigation system shall be the rate set forth in the Annual Fee Resolution plus the rate set forth in the Annual Fee Resolution per sprinkler or outlet.~~
- ~~(D) *Swimming pools.* The fee for a swimming pool piping and filter installation shall be the rate set forth in the Annual Fee Resolution plus the rate set forth in the Annual Fee Resolution per fixture.~~

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- ~~(E) — *Minimum fee.* No inspection shall be made or a plumbing permit issued for less than in the amount set forth in the Annual Fee Resolution.~~
- ~~(F) — *City Collector.* All fees herein provided for shall be paid to the City Collector before the permit is issued.~~
- ~~(G)~~(C) *Replacement water heater.* The fee for a water heater replacement shall be in the amount set forth in the Annual Fee Resolution.
- ~~(H)~~(D) *Third-party fee.* The fee for any third-party inspection or service required pursuant to this Code shall be in the amount set forth in the Annual Fee Resolution.

Sec. 171.230. — Building drain fees.

- ~~(A) — *New installations.* The fee for the installation of a building sanitary or storm drain shall be the rate set forth in the Annual Fee Resolution for each building drain, which fee shall be paid to the City prior to the issuance of the permit therefore.~~
- ~~(B) — *Repairs.* The fee for the repair or replacement of a building sanitary or storm drain or any portion thereof shall be the rate set forth in the Annual Fee Resolution, which fee shall be paid to the City prior to the issuance of the permit therefore.~~

Sec. 171.235. - Private sewage disposal system fees.

The fee for each private sewage disposal system or portion thereof including inspections fees, shall be the rate set forth in the Annual Fee Resolution. In addition, any applicant for any such private sewage disposal system must provide a permit therefore from Lake County prior to the issuance of any such permit.

Sec. 171.240. — Receipt for sanitary and storm sewer connection charge.

~~The City Collector shall issue a receipt for the payment of the sanitary and/or storm sewer connection charge, which receipt shall be evidence to the Director of Community Development of such payment for the purpose of authorizing the issuance of a permit to connect the house sewers with the public sanitary and/or storm sewer or for the issuance of building or other required permit.~~

Sec. 171.245. - Sanitary sewer or storm sewer connection and dye testing charge.

- (A) The charge for connecting a sanitary sewer or storm sewer with a public sanitary sewer or storm sewer shall be in the amount set forth in the Annual Fee Resolution.
- (B) Dye Test. The fee for performing a dye test of existing downspouts and sump pump drains shall be in the amount set forth in the Annual Fee Resolution.

Sec. 171.250. — General obligation bonds.

~~The sanitary sewer connection charges so collected by the City Collector shall be used only in payment of the principal and interest upon any general obligation bonds issued by the City for constructing improvements and extensions to the sanitary sewer system in Highland Park, until the principal and interest due on all such bonds have~~

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~~been paid. Any general property tax required to be levied to provide funds for the payment of either interest or principal or both upon any such general obligation bonds shall be abated each year in an amount equal to the amount of the sewer connection charges so collected during the preceding year plus the surplus, if any, collected in any prior years. The entire amount of the sewer connection charges so collected shall be applied annually to the payment of the principal and interest due on such bonds; the surplus, if any, to be retained in the fund and applied to the payments due in the next succeeding year. Provided, that on or after December 1, 1966, the sanitary sewer connection charges so collected may, upon a resolution of the Council of the City of Highland Park, be applied to the payment of the principal and interest due on such bonds as are called in for prepayment, and, in that event, the provisions for abating any general property tax as required herein shall not apply.~~

Sec. 171.265. - Notification to Plumbing Inspector.

- (A) ~~—The Plumbing Inspector shall be notified by the firm or the person doing the work when any plumbing work is begun and when it is ready for inspection. All work shall be left completely uncovered and convenient for examination until inspected and approved.~~
- (B) ~~—A Plumbing Inspector shall examine the work within a reasonable time once the work is ready for inspection, and the contractor has properly scheduled a plumbing inspection with the Building Division. Depending on scheduling conditions, 24 to 72 hours shall be considered a reasonable time. All plumbing must be tested in accordance with the requirements of the Illinois State Plumbing Code of 2004, in the presence of the Plumbing Inspector. All defective materials shall be replaced and the work corrected. The manner of the testing to be implemented shall be at the discretion of the Plumbing Inspector. Upon a satisfactory reinspection of the work, the Plumbing Inspector shall issue a notice of approval.~~

ARTICLE V. SUPPLEMENTAL PLUMBING REGULATIONS

Sec. 171.300. Sewer and City Water Required.

- (A) ~~—Every building with an installed plumbing system intended for human habitation or occupancy on premises which falls adjacent to or abutting property with a public water system and public sanitary sewer system accessible through a right of way or easement, shall have a connection to that public water system and public sanitary sewer system. Whenever a building with an installed plumbing system is connected to the City of Highland Park municipal water system, no competing water system shall be permitted.~~
- (B) ~~—Every existing building and every building hereafter constructed shall be separately and independently connected to a public sanitary sewer system whenever there is any sewer in the street, alley, or easement, and adjoining the property on which the building is located. Where there are two or more buildings on one lot serving the same occupancy and under common ownership, a common building sanitary sewer may be extended from the public sanitary sewer system to serve the building, provided the capacity of such sewer line is~~

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~~sufficient for the combined flow and provided that the Administrative Authority grants approval of such a common line.~~

- ~~(C) No building drain, sanitary sewer, septic tank discharge, cesspool, industrial waste, or any fixture or device discharging polluting substances shall discharge to any storm sewer, storm water drain, or highway drainage ditch, or to any other unacceptable point of termination.~~
- ~~(D) The connection to a public sanitary sewer system must be made within the property frontage. In the absence of a "Y" or stub so located, such a connection shall be made only by means of a machine tap, approved by the Department of Public Works. Excavation and shoring protection shall be provided by the owner or contractor, and shall comply with all required OSHA safety standards.~~
- ~~(E) Every new and existing dwelling or place of employment shall be provided with a plumbing system, including water closet facilities. When any building shall be located on a street or on a site not more than 300 feet from the property line to the public sanitary sewer system, connection shall be made thereto.~~
- ~~(F) When such a sewer connection is not available, a private sewage disposal system shall be provided, subject to the provisions of this Code, and subject to the Lake County Health Department regulations and approval.~~
- ~~(G) The minimum diameter of a building sanitary sewer service shall be four inches.~~
- ~~(H) Sanitary sewer piping shall be installed at a minimum depth of three feet, six inches below finished grade or as approved by Administrative Authority.~~
- ~~(I) A sanitary sewer service line shall be installed in as direct and straight a line as is possible between the building it serves and its connection to the City sewer. No sanitary sewer shall have, in any of its horizontal portions, more than two directional change fittings, and no individual fitting may be greater than 45 degrees, nor the total of the two fittings combined to exceed 90 degrees. This requirement does not apply to that part of the system more properly known as the "Building Drain".~~

~~Sec. 171.305. Repairs.~~

~~Cement mortar joints are prohibited for all purposes, including repairs.~~

~~Sec. 171.310. Traps~~

- ~~(1) Full or partial running traps are prohibited.~~
- ~~(2) No trap shall be reduced in size on its inlet side.~~

~~Sec. 171.315. Junction of Building Drain and Building Sewer.~~

~~A cleanout shall be provided at the junction of the building drain and the building sewer. The cleanout shall be located outside the building within five feet of the foundation wall.~~

~~Sec. 171.320. Overhead plumbing.~~

Additions are bold and double-underlined; deletions are struck through.

- (A) ~~All new buildings with basements, floors, rooms or occupancy areas below grade level at the building site and served by a public or private sewer system shall have overhead plumbing.~~
- (B) ~~When a sanitary (building drain) sewer passes through the foundation wall, the use of a wye and 45 degree combination fitting(s) shall be required with a full size cleanout installed to service the horizontal sewer line as it exits through the foundation. This cleanout shall be installed directly opposite to the flow of the horizontal sewer.~~
- (C) ~~Ductile iron pipe shall be the required material for any sanitary sewer (building drain) passing through a foundation wall and the foundation overdig.~~

~~Sec. 171.325. Food Waste Disposer Units.~~

~~In multi-story buildings, any waste line receiving the discharge from a sink equipped with a food waste disposer shall be independent of any toilet or bathroom fixture connection, and shall extend separately to the soil or waste stack.~~

~~Sec. 171.330. Water Heater Accessibility.~~

~~Water heaters are classified as plumbing fixtures, and must be accessible for repair, removal or replacement. Water heaters shall not be located in any hidden area, examples of which would include above a false ceiling or in a crawl space.~~

~~Sec. 171.335. Pay Toilet Facilities.~~

~~It is prohibited to charge any sum of money for the use of any toilet facility in the City of Highland Park.~~

~~Sec. 171.340. Multi Occupant Toilet Facilities.~~

~~Every washroom designed to accommodate more than one occupant shall be provided with individual privacy stalls and doors for each water closet. Partitions shall also be provided between other dissimilar fixtures such as urinals and lavatories. A single occupant washroom shall be defined as one water closet and one lavatory located in the same room.~~

~~Sec. 171.345. Waterless Plumbing Fixtures.~~

~~It shall be prohibited to install any waterless type plumbing fixture(s) in the City with the exception of temporary or portable toilet facilities used for special events or construction sites.~~

~~Sec. 171.350. Plumbing Walls.~~

- (A) ~~Any wall which contains any plumbing lines, stacks, branches, or risers, any one of which is at least one and one half inch minimum diameter in size, shall consist of not less than two inch by six inch framing members.~~
- (B) ~~Any measures necessary to protect such plumbing from freezing shall be the responsibility of the architect or engineer.~~
- (C) ~~Drilling and notching shall comply with the requirements of the International Building Code, 2009 Edition, and the International Residential Code, 2009 Edition.~~

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Sec. 171.355. Swimming Pools.

~~Piping carrying backwash or other wastewater from a swimming pool filter shall be installed as an indirect waste to the building drain or building sanitary sewer system. The swimming pool proper shall be drained/discharged (spring and fall maintenance) into the sanitary sewer system via a discharge hose directly into the nearest sanitary sewer manhole in the public right of way. Overland or ravine drainage is not permitted. If provided, piping utilized for carrying wastewater from deck drains around a pool shall be connected to a storm sewer for an exterior pool, or as an indirect connection to the sanitary sewer for an interior pool.~~

Sec. 171.360. Lawn Irrigation Systems.

- (A) ~~Lawn irrigation systems shall be equipped with an approved reduced pressure zone backflow prevention device, and a strainer shall be installed immediately upstream and adjacent to the feed side of the device assembly. The reduced pressure zone device shall be installed according to the manufacturer's instructions and then tested and certified in accordance with the regulations of the Illinois Environmental Protection Agency. Lawn irrigation systems that are not so equipped with a backflow prevention device, or that are equipped with a backflow prevention device that has not been properly tested and certified, must be equipped with a tamper resistant safety lockout device that prevents the supply of water to the lawn irrigation system, to be installed by the City upon the submission by the property owner of written authorization and the installation fee therefor, in the amount set forth in the Annual Fee Resolution. The owner of each property equipped with such a safety lockout device shall also pay an annual inspection and maintenance fee, on or before May 1 of each calendar year (other than the year in which the safety lockout device is installed), in the amount set forth in the Annual Fee Resolution.~~
- (B) ~~All lawn irrigation systems installed after May 1, 2013 that are connected to the City's potable water system shall have furnished and installed technology that inhibits or interrupts operation of the irrigation system during periods of sufficient moisture or rainfall, which technology must: (1) satisfy the United States Environmental Protection Agency's WaterSense criteria; and (2) be adjustable either by the end user or the irrigation contractor.~~

Sec. 171.365. Water Services.

~~The requirements and locations of water services, water meters, water meter remote registers, and wiring provisions, water meter pits, and water meter valving, shall be determined by the Superintendent of the Water Department of the City of Highland Park.~~

Sec. 171.370. Water Service and Building Water Pipe Sizing.

- (A) ~~The water service pipe from the City system to the water distribution system for the building shall be of sufficient size to provide an adequate flow of water to meet the requirement of the entire building at peak demand. In no case shall the water service pipe be less than one inch nominal diameter.~~

Additions are bold and double-underlined; deletions are struck through.

~~(B) — All water service piping located outside the building shall be installed at not less than five feet below finished grade throughout its entire length.~~

~~(C) — It shall be the responsibility of the plumbing contractor, plumber, architect, or engineer to sufficiently size the water service and the building water distribution system, and to ensure that the distribution system shall be shown on the approved plans.~~

~~Sec. 171.375. — Hot Water Supply and Distribution.~~

~~Where the developed length of hot water piping from the source of hot water supply to the farthest fixture exceeds 50 feet, the hot water supply system shall be provided with a recirculation return line. The recirculation return line may be installed to operate as a gravity flow system; however, a recirculation pump shall be required if the gravity flow system fails to operate efficiently. A check valve and a shut-off valve on either side of the check valve shall be required on all recirculation return lines. Recirculation lines assisted with a pump shall have a shut-off valve on either side of the pump; however, a check valve shall not be required.~~

~~Sec. 171.380. — Heat Exchangers.~~

~~Without exception, all heat exchangers used for the heating and/or storage of potable water shall be of double wall construction with an air gap open to the atmosphere between the atmosphere between the two walls.~~

~~Sec. 171.385. — Waste Arms.~~

~~The trap arm, as defined in Section 890.120 of the Illinois Plumbing Code of 2004, of fixtures which connect to a vertical waste line (e.g., sinks, urinals, and drinking fountains), shall not discharge through a waste arm which changes in any direction except from the horizontal to the vertical.~~

~~Sec. 171.390. — Floor Drains and Hub Drains.~~

~~(A) — Each floor drain or hub drain shall be individually trapped and requires an individual trap vent. All floor drains and hub drains below grade shall be a minimum size of four inches in diameter.~~

~~(B) — The entire cross-sectional area of each floor drain shall be open and completely exposed to view. No floor drain shall be located in a hidden or inaccessible area. This provision shall also apply to any hub drain except where such a hub drain is located beneath restaurant or bar equipment it services.~~

~~(C) — Commercial and residential apartment or condominium buildings with interior vehicle storage areas or garages shall be provided with floor drains or trench drains that connect to the building sanitary system through an approved triple basin intercepter. Floor drains shall be installed at a minimum of one drain for each 500 square feet of garage area. Trench drains shall be installed to extend the entire length of the garage and are required to have a trapped and vented drain every 40 lineal feet.~~

~~(D) — When a new building addition with a basement is made to an existing building, and that new basement is at a lower elevation to the existing basement, a~~

Additions are bold and double-underlined; deletions are struck through.

~~trapped and vented floor drain shall be required. This floor drain shall connect to the building sanitary system by means of sanitary ejector pump and basin.~~

~~Sec. 171.395. Vent Terminals.~~

~~The vent terminal increaser fitting shall have a diameter at least one inch greater than that of the stack it serves, but not less than three inches in diameter.~~

~~Sec. 171.400. Restricted Fittings.~~

- ~~(A) — On soil or waste lines, a heel or side inlet quarter bend shall not be used as a vent when the inlet is placed in the horizontal position.~~
- ~~(B) — Twin ell fittings shall be permitted only when used in the vent system.~~
- ~~(C) — The proper use of reducing fittings shall be required. Bushings shall not be considered a proper reducing fitting.~~

~~Sec. 171.405. Basement Vents.~~

- ~~(A) — Every new single family dwelling with a basement shall be provided with a minimum two inch vent connection in the basement.~~
- ~~(B) — Any future plumbing rough installed in a basement shall have the waste and vent piping completed and connected to the building plumbing system and all openings shall be properly capped or plugged.~~
- ~~(C) — The vent which serves any sanitary ejector basin shall not be used as a waste vent for any device or fixture.~~

~~Sec. 171.410. Elevator Shafts.~~

~~Pumps or drains which are located in hydraulic elevator shafts shall not connect to any sanitary or storm drain or sewer.~~

~~Sec. 171.415. Plumbing Material Use Restrictions~~

- ~~(1) — *Sanitary Sewer:* Sanitary sewers shall be constructed with materials that satisfy the following minimum requirements:~~
 - ~~(A) — Outside, *Underground*~~
 - ~~1. — Cast Iron Service Weight or extra heavy Hub and Spigot. ASTM A74; CISPI HS74; C564. Ductile iron pipe may also be used— Class 52 Minimum.~~
 - ~~2. — PVC, Schedule 40, ASTM 2665~~
 - ~~3. — PVC, SDR 26, ASTM 3034~~
 - ~~4. — Where applicable, the use of approved non-shear type couplings shall be required.~~
 - ~~(B) — Inside *Drain Waste & Vents:*~~
 - ~~1. — Underground~~
 - ~~(a) — Cast Iron Service Weight or extra heavy weight, Hub and Spigot. ASTM A74; CISPI HS 74; C564.~~
 - ~~2. — Above Grade~~

Additions are bold and double-underlined; ~~deletions are struck through.~~

- (a) ~~Cast Iron, Hub and Spigot, and molten lead joints~~
- (b) ~~Hubless Cast Iron Soil Pipe and Fittings—ASTM A888-98, ASTM A74; CISPI HS 74.~~
- (c) ~~Galvanized, Steel, Schedule 40~~
- (d) ~~Copper, Type DWV~~
- (e) ~~PVC—Schedule 40 ASTM 2665~~

Note: The use of a visible colored primer shall be required.

(2) ~~Water Services: Water services shall be constructed with materials that satisfy the following minimum requirements:~~

(A) ~~Outside, Underground~~

- 1. ~~Type K Copper~~
- 2. ~~Ductile Iron—Class 54~~
- 3. ~~After meter—outside in ground only. P.E. or PVC Plastic may be used for lawn irrigation systems only.~~

(B) ~~Inside~~

- 1. ~~Underground~~
 - (a) ~~Type K Copper~~
 - (b) ~~Ductile Iron—Class 54~~
- 2. ~~Above Grade~~
 - (a) ~~Type K or L Hard Copper~~
 - (b) ~~Ductile Iron—Class 54~~
 - (c) ~~Galvanized, Steel, Schedule 40~~

(3) ~~Storm Sewer: Storm sewers shall be constructed with the following materials:~~

(A) ~~Outside; Underground~~

- 1. ~~Cast Iron, Hub and Spigot~~
- 2. ~~Concrete pipe, Reinforced~~
- 3. ~~PVC—Schedule 40, ASTM 2665~~
- 4. ~~PVC—SDR 26, ASTM 3034~~
- 5. ~~Within the Steep Slope Zone, as defined pursuant to Section 150.202 of this Code, a continuous, non-segmented pipe of a type approved for directional boring by the Building Code Official or the City Engineer.~~

(B) ~~Inside, Above Grade~~

- 1. ~~Cast iron, Hub and Spigot, and Molten Lead Joints. ASTM A74; CISPI HS74~~
- 2. ~~Hubless Cast Iron Soil Pipe and Fittings—ASTM A888, C564~~
- 3. ~~Galvanized, Steel, Schedule 40~~
- 4. ~~Copper, DWV~~
- 5. ~~PVC—Schedule 40, ASTM 2665~~

Additions are bold and double-underlined; deletions are struck through.

~~(4) — Pipe and Fittings for Sewers~~

~~PVC plastic pipe and fittings for sanitary and storm sewer service lines, as listed in this Section 171.415, shall be permitted, provided the installation complies with the following conditions:~~

- ~~(A) — The sewer tap connection to the City sewer shall be approved by the Director of Public Works;~~
- ~~(B) — Ductile iron pipe shall be used to penetrate the foundation wall and carry the sanitary sewer (building drain) through the foundation overdig.~~
- ~~(C) — All PVC joints shall be compatible with the pipe being installed. Glue joints for Schedule 40 (ASTM D 2665) and SDR 26 (ASTM D 3034) shall require the use of a visible colored primer. Flexible elastomeric seal joints for SDR 26 pipe only shall meet the requirements of ASTM D 3212.~~
- ~~(D) — Where applicable, the use of approved non-shear type couplings shall be required.~~
- ~~(E) — Clean gravel or other approved material shall be used as bedding and backfill. A minimum of four inches of bedding material shall be placed in the trench throughout the entire length of the sewer before any pipe is installed. After inspection approval, 12 inches of backfill material shall be required over the top of the pipe.~~
- ~~(F) — Installation shall meet the manufacturers' specifications for the pipe and fittings installed.~~

~~Sec. 171.425. — Triple Basin Interceptors — Minimum Requirements.~~

- ~~(A) — Triple basin interceptors shall be made of durable fiberglass material suitable for gas and oil.~~
- ~~(B) — Interceptors located within vehicular parking or driveway areas shall be encased in concrete, six inches thick on the bottom and on all sides.~~

~~Sec. 171.430. — Reserved.~~

ARTICLE VI. IV. - PENALTY

Sec. 171.999. - Penalty.

- (A) Whoever shall engage in the business of plumbing as a journeyman plumber, plumbing contractor, or employing plumber in the City of Highland Park without having obtained a license from the State of Illinois as provided herein and/or any such person who shall not be registered as provided in this Chapter, shall be fined not less than \$100.00 nor more than \$500.00 in the case of the first offense, and be fined not less than \$250.00 nor more than \$1,000.00 for each and every subsequent offense and shall pay the City's costs arising out of its enforcement activities including but not limited to its attorney's fees. Each day that a violation continues shall be deemed a separate offense.

Additions are bold and double-underlined; deletions are struck through.

- (B) Any person who shall refuse or neglect to obey an order of the Director of Community Development or his authorized representative to correct or remove any unsanitary plumbing or plumbing installed in violation of this Chapter shall be fined not less than \$100.00 nor more than \$500.00 in the case of a first offense, and not less than \$250.00 nor more than \$1,000.00 for each and every subsequent offense and shall pay the City's costs arising out of its enforcement activities including but not limited to its attorney's fees. Each day that a violation continues shall be deemed a separate offense.

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Additions are bold and double-underlined; ~~deletions are struck through.~~