

ORDINANCE 2020-PLUMB-TA-G-1167

**AN ORDINANCE AMENDING SECTION 10-1-1 OF TITLE 10 (BUILDING REGULATIONS) OF THE
VILLAGE CODE REGARDING UPDATES TO THE PLUMBING CODE**

WHEREAS, Title 10, titled "Building Regulations," of Chapter 1, titled "Building Code," of Section 1, titled "Building Codes Adopted," of "The Village Code of the Village of Oak Brook," as amended ("Village Code"), adopts by reference certain model building codes (collectively, the "Model Codes") including the 2014 edition of the State of Illinois Plumbing Code ("2014 Illinois Plumbing Code"); and

WHEREAS, Title 10, titled "Building Regulations," of Chapter 1, titled "Building Code," of Section 2, titled "Building Codes Amendments," of "The Village Code of the Village of Oak Brook," sets forth certain amendments to the Model Codes that apply within the Village, including amendments to the 2014 Illinois Plumbing Code ("2014 Plumbing Code Amendments"); and

WHEREAS, the State of Illinois amended and released the 2014 edition of the Illinois Plumbing Code on April 24, 2014; and

WHEREAS, the Village desires to adopt by reference the 2014 Plumbing Code with amendments; and

WHEREAS, the Village President and Board of Trustees are of the opinion that the Text Amendments are in the best interest of the Village.

NOW, THEREFORE, BE IT ORDAINED, in an open meeting assembled by the Village President and Board of Trustees of the Village of Oak Brook, Cook and DuPage Counties, Illinois as follows:

Section 1: Recitals. The Board of Trustees hereby find that all of the recitals hereinbefore stated as contained in the preamble to this ordinance are full, true and correct and do hereby, by reference, incorporate and make them part of this ordinance as legislative findings.

Section 2: Building Codes Adopted. Section 1, titled "Building Codes Adopted," of Chapter 1, titled "Building Code," of Title 10, titled "Building Regulations," of the Village Code is hereby amended as follows:

10-1-1: BUILDING CODES ADOPTED:

- D. State of Illinois Plumbing Code: 2014 edition, published by the Illinois Department of Public Health as attached and incorporated herein.

Section 3: Codification The title, chapter(s) and section(s) adopted by this Ordinance shall be numbered and placed in an appropriate title, chapter(s), and sections(s) when and during the codification of the Oak Brook Municipal Code.

Section 4: Conflict Clause That all ordinances, parts of ordinances or board actions in conflict with the terms of this ordinance shall be repealed to the extent of said conflict.

Section 5: Effective Date The provisions of the Village Code amended herein shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

[SIGNATURE PAGE FOLLOWS]

APPROVED THIS 14th day of July, 2020



Gopal G. Lalmalani
Village President

PASSED THIS 14th day of July, 2020

Ayes: Trustee Baar, Cuevas, Manzo, Saiyed, Tiesenga, Yusuf

Nays: None

Absent: None



ATTEST:



Charlotte K. Pruss
Village Clerk

D. State Of Illinois Plumbing Code Amendments:

Illinois Plumbing Code, 77 Ill. Admin. Code 890 et seq adopted in section [10-1-1](#) of the village code is amended as follows:

All fees specified in the state of Illinois plumbing code shall be superseded and replaced by those set forth in section 10-4 of the village code.

Section 890.230 Safe Pan Material and Construction. Is amended by removing "ABS" from list of approved materials listed in subsection a), a) 4 and a) 5.

Section 890.320 Types of Joints

Amend subsection h) to read: h) Brazed Joints. Brazed joints shall be made by first cleaning the surface to be joined down to the base metal, applying flux approved for brazed joints and for the filler metal to be used, and making the joints by heating to a temperature sufficient to melt the approved brazing filler metal on contact. (See Section 890.330(b).)

Delete Subsection k) Bituminized Fiber Pipe Joints.

l) Plastic Pipe Joints. Delete Subsection 2) Joints and Fittings in Plastic Pipe and associated subsections A), B), and C).

Section 890.330 Special Joints.

Delete from Subsection c) "or chlorinated polyvinyl chloride (CPVC)"

g) Plastic Pipe to Non-Plastic Pipe Joints. Delete subsection 1) Pressure Piping and associated subsections A), B), C) and D).

Section 890.510 Grease Interceptor Requirements. Is amended by replacing subsection 2), entitled "Minimum Size," of subsection a), with the following:

"Minimum Size. A grease interceptor installed on the same floor as the fixture shall have 100 percent the liquid holding capacity of the fixture. A grease interceptor located on a floor below the fixture shall have 100 percent of the liquid-holding capacity of the fixture. To determine the liquid-holding capacity in gallons of a plumbing fixture, the length is multiplied by the width by the height in inches and divided by 231. Where two or more sinks or receptacles are connected to an interceptor the liquid holding capacity shall be based on the combined volume of the fixtures served."

Section 890.630 Installation. Is amended by replacing the last sentence of subsection e, entitled "Portable Water Supply Connection," with the following:

"Where present, each lavatory sink faucet shall have supply pipes that are accessible."

Section 890.640 Prohibited Fixtures. Is amended by replacing subsection a) with the following:

"Drinking fountains shall not be installed in public toilet rooms, colonic irrigation therapy rooms, or laboratories for removing blood, pus or other bodily fluids."

Section 890.746 Colonic Irrigation Units. Add a new section 890.746 as follows:

"Section 890.746 Colonic Irrigation Units.

- a) Colonic irrigation systems connected to the water supply shall be provided with backflow protection.
- b) A reduced pressure principle backflow assembly conforming to ASSE 1013, or a fixed air gap, shall be installed on each colonic irrigation unit or group of colonic irrigation units.
- c) If a colonic irrigation unit has a water outlet below the flood rim level of an attached drain, then an approved reduced principle pressure backflow preventer assembly, a fixed air gap, an air vent hole, or an approved vacuum breaker shall protect the water supply from each unit."

Section 890.1140 Special Applications And Installations.

- d) Lawn Sprinklers. Any lawn sprinkler system connected to a potable water supply shall be equipped with an RPZ. The RPZ may be located outside provided that it is protected from freezing or is removed at the end of the season, and it complies with section 890.1130(g)(1). All new plumbing fixtures and irrigation controllers installed after the effective date of this ordinance shall bear the WaterSense label (as designated by the U.S. environmental protection agency WaterSense program), when such labeled fixtures are available.
- h) 1) A) Aspirators. If aspirators are used in operating rooms, emergency rooms, recovery rooms, delivery rooms, autopsy rooms, dental offices, colonic irrigation rooms, and laboratories for removing blood, pus or other fluids, a vacuum breaker shall be installed on the discharge side of the control valve, at ceiling height (a minimum of 7 feet, 6 inches) and the water supply shall be protected against backflow and back siphonage by an air gap; or an RPZ shall be used.

Section 890.1150 Water Service Pipe Installation. Replace subsection 3) of subsection a), entitled "Underground Water Service," with the following:

- 3) The minimum depth for any water service pipe shall be at least 60 inches.

Section 890.1200 Water Service Sizing.

a) Water Service Pipe Sizing. The water service pipe from the street main (including the tap) to the water distribution system for the building shall be sized in accordance with appendix A, tables M, N, O, P and Q. Water service pipe and fittings shall be at least 1 inch diameter. If flushometers or other devices requiring a high rate of water flow are used, the water service pipe shall be designed and installed to provide this additional flow.

Section 890.1230 Safety Devices. In subsection 2) of subsection d), entitled "Relief Discharge Outlet," add "but no closer than as specified in appendix A, table C," between "receptor" and "the end,".

Section 890 Illustrations For Subpart I. In illustration L and illustration M, replace "Relief Valve Discharge Piping Lower End To Be Open With A Minimum 6" Air Gap" with the following:

"Relief Valve Discharge Piping Lower End To Be Open With A Maximum 6" Air Gap But No Closer Than As Specified In Appendix A, Table C."

Section 890.1320 Drainage System Installation. Delete from subsection I), entitled "Fixture Connections", "and fittings for circuit vented fixtures".

Section 890.1340 Determination Of Sizes For Drainage System.

b) 2) Pressure building drains may be installed to prevent sewer back up in a basement, cellar, crawl space or other area where any portion of the floor surface is below grade. Pressure-building drains shall not be used where gravity drains may otherwise be installed. Pressure-building drains shall be sized in accordance with the ejector pump manufacturer's recommendation, but shall not be less than 2 inches in diameter.

b) 4) No portion of the drainage system installed underground or below a basement or cellar shall be less than 4 inches in diameter. The venting system is excluded from this requirement.

Section 890.1370 Floor Drains. In subsection b), entitled "Size," replace "2 inches" with "4 inches".

Section 890.1390. Add a new section 890.1390 as follows:

Section 890.1390.

Section 890.1390.1 Building Subdrains. Building subdrains that cannot be discharged to the sewer by gravity flow shall be discharged into a tightly covered and vented sump from which the liquid shall be lifted and discharged into the building gravity drainage system by automatic pumping equipment or other approved method. In other than existing structures, the sump shall not receive drainage from any piping within the building capable of being discharged by gravity to the building sewer.

Exception: Sanitary pump (ejector) pits with overhead drainage may be installed to prevent sewer back up in a basement, cellar, crawl space, or other area where any portion of the floor surface is below grade.

Section 890.1390.2 Valves Required. A check valve and a full open valve located on the discharge side of the check valve shall be installed in the pump or ejector discharge piping between the pump or ejector and the gravity drainage system. Access shall be provided to such valves. Such valves shall be located above the sump cover or, where the discharge pipe from the ejector is below grade, the valves shall be located outside the sump below grade in an access pit with a removable access cover.

Section 890.1390.3 Sump Design. The sump pump, pit, and discharge piping shall conform to the requirements of sections 890.1390.3.1 through 890.1390.3.5.

890.1390.3.1 Sump Pump. The sump pump capacity and head shall be appropriate to anticipated use requirements.

890.1390.3.2. Sump Pit. The sump pit shall be not less than 18 inches (457 mm) in diameter and 24 inches (610 mm) deep, unless otherwise approved. The pit shall be accessible and located such that all drainage flows into the pit by gravity.

The sump pit shall be constructed of tile, concrete, steel, plastic or other approved materials. The pit bottom shall be solid and provide permanent support for the pump. The sump pit shall be fitted with a gas-tight removable cover adequate to support the anticipated loads in the area of use. The sump pit shall be vented in accordance with the Illinois plumbing code.

890.1390.3.3 Discharge Piping. Discharge piping shall meet the requirements of section 890.1390.2.

890.1390.3.4 Maximum Effluent Level. The effluent level control shall be adjusted and maintained to at all times prevent the effluent in the sump from rising within 2 inches (51mm) of the invert of the gravity drain inlet into the sump.

890.1390.3.5 Ejector Connection To The Drainage System. Pumps connected to the drainage system shall connect to the building sewer or shall connect to a wye fitting in the building drain a minimum of 10 feet (3048 mm) from the base of any soil stack, waste stack or fixture drain. Where the discharge line connects into horizontal drainage piping, the connector shall be made through a wye fitting into the top of the drainage piping.

890.1390.4 Sewage Pumps And Sewage Ejectors. A sewage pump or sewage ejector shall automatically discharge the contents of the sump into the building drainage system.

890.1390.4.1 Reserved.

890.1390.4.2 Capacity. A sewage pump or sewage ejector shall have the capacity and head for the application requirements. Pumps or ejectors that receive the discharge of water closets shall be capable of handling spherical solids with a diameter of up to and including 2 inches (51 mm). Other pumps or ejectors shall be capable of handling spherical solids with a diameter of up to and including 1 inch (25.4 mm). The minimum capacity of a pump or ejector based on the diameter of the discharge pipe shall be in accordance with table 890.1390.4.2.

Exceptions:

1. Grinder pumps or grinder ejectors that receive discharges of water closets shall have a minimum discharge opening of 1.25 inches (32 mm).
2. Macerating toilet assemblies that serve single water closets shall have a minimum discharge opening of 0.75 inch (19 mm).

**Table 890.1390.4.2:
Minimum Capacity Of Sewage Pump Or Sewage Ejector**

Diameter Of The Discharge Pipe (Inches)	Capacity Of Pump Or Ejector (g.p.m.)
2	21
2½	30
3	46

Section 890.1450 Vent Grades And Connections. Delete subsection d), entitled "Heel Or Side-Inlet Bend".

Section 890.1480 Type Of Fixture Trap Vents. Delete subsections c) and d).

Section 890.1490 Installation Of Vents For Fixture Traps. Replace section 890.1490 with the following:

"Section 890.1490 Installation Of Vents For Fixture Traps.

a) Hydraulic Gradient. Fixture drains shall be vented within the hydraulic gradient between the trap outlet and the junction with another drain. The hydraulic gradient as applied to a gravity drain and its vent connection is interpreted as the grade line.

b) Different Level. If any stack has fixtures entering at different levels, the fixtures other than the fixtures entering at the highest level shall be vented, except as otherwise provided. (See section 890.1510.)

c) Horizontal Branch Drains. Where a water closet discharges into a branch drain, each fixture discharging into that branch drain shall be individually vented."

Section 890.1500 Installation Of Wet Venting. Delete section 890.1500 in its entirety.

Section 890.1520 Circuit And Loop Venting. Delete section 890.1520 in its entirety.

Section 890 Table A Approved Materials And Standards.

Approved Building Drainage/Vent Pipe.

Delete subsections 1), 10) and 12). Remove "or DWV" from subsection 6).

Agency Notes: Remove "DWV copper tubing" from subsection 2). Delete subsection 4).

Approved Materials For Water Service Pipe.

Delete subsections 1), 4) and 8)-12).

Approved Material for Water Distribution Pipe.

Delete subsections 2), 5) and 7)-9).

Agency Notes: Delete subsection 1) and 3). Remove "Plastic shall be rated at 160 psi at 73.4 degrees Fahrenheit." From subsection 2).

Section 890 Table B Minimum Number Of Plumbing Fixtures. Add the following to table B:

Type of building	Medical or therapeutic occupancies where colonic irrigation or other similar activities occur.
Water closet	1 water closet - directly accessed from the treatment room - in addition to any other fixtures required by this code*.
Lavatories	1 lavatory - in or accessed directly from the treatment room - in addition to any other fixtures required by this code.*
*Drinking fountains	Prohibited in the treatment room.
Other fixtures	1 service sink per suite or office, in addition to any other fixtures required by this code.

*It is the intent of this section to allow a single toilet room to directly connect multiple treatment rooms - provided that there is no travel required through any adjacent hall, room, or other space.