

ITEM ORD 2015-6177

VILLAGE OF DOWNERS GROVE
Report for the Village Council Meeting
4/21/2015

SUBJECT:	SUBMITTED BY:
Illinois Plumbing Code Adoption	Alex Pellicano Building Division Manager

SYNOPSIS

An ordinance has been prepared amending portions of Chapter 16 of the Downers Grove Municipal Code to adopt the most recent version of Illinois State Plumbing Code (ILPC) as promulgated by the Illinois Department of Public Health (IDPH).

STRATEGIC PLAN ALIGNMENT

The Goals for 2011-2018 include *Exceptional Municipal Services* and *Top Quality Infrastructure*

FISCAL IMPACT

N/A

UPDATE & RECOMMENDATION

This item was discussed at the April 14 Village Council meeting. Staff recommends approval on the April 21, 2015 Active Agenda. The amendments will become effective upon final approval from the State. DMMC is aware of this issue. Both the Regulatory Committee and the Legislative Committee have discussed it at their last meetings. A legislative amendment would be required to allow municipalities to impose local amendments without State approval.

BACKGROUND

The Village's current plumbing code references the 2004 Illinois State Plumbing Code with local amendments. The current State of Illinois Plumbing Code had an effective date, and became immediately enforceable, as of April 14, 2014. Per state law (225 ILCS 320/42) only the State may exercise the power to regulate plumbers and promulgate a minimum plumbing code of standards, and this power may not be exercised by any unit of local government, including home rule units.

The Plumbers License Code (the "Code"; 68 IL. Admin. Code Section 750.800) does allow for governmental units to enact a minimum code of standards pertaining to plumbing, however they shall be at least as stringent as the Illinois Plumbing Code. In addition these ordinances that are more stringent than the Illinois plumbing Code must be submitted to the IDPH for review and if approved in writing shall prevail in lieu of the Illinois Plumbing Code. Staff sought and received tentative approval for the following amendments:

- Section 890.1150 a) 3) shall be amended as follows: “The minimum depth for any water service pipe shall be at least 60 inches or the maximum frost penetration of the local area, whichever is of greater.”
- Section 890.1190 b) the first sentence shall be deleted in its entirety and substituting in lieu thereof the following: “The utility meter shall be installed within the building.”

The IDPH requires that tentative written approval be received from IDPH prior to formal adoption at the local level. Then after such adoption, the duly adopted ordinance, exactly matching the ordinance that was granted tentative approval, should be resubmitted to IDPH for formal approval. Staff recommends approval of the proposed amendments, and will then seek final approval from IDPH.

Representatives from the IDPH have held multiple town hall meetings throughout the State and issued official communications to describe this procedure for allowing local government amendments to the current ILPC and have been adamant about considering only those amendments that can be demonstrated as being necessary via scientific or technical documentation. Other communities in the western suburbs are also working towards adoption of the 2014 ILPC, with amendments, and are having difficulty getting approval for the vast majority of amendments they seek. IDPH reports that as of February 19, 2015 “no municipality in Illinois has adopted an IDPH approved local ordinance related to the ILPC”.

ATTACHMENTS

Ordinance

IDPH Tentative Approval Letter

General Summary of the Changes to the Illinois Plumbing Code

VILLAGE OF DOWNERS GROVE
COUNCIL ACTION SUMMARY

INITIATED: Community Development **DATE:** April 21, 2015
(Name)

RECOMMENDATION FROM: n/a **FILE REF:** _____
(Board or Department)

NATURE OF ACTION:

- ☒ Ordinance
☐ Resolution
☐ Motion
☐ Other

STEPS NEEDED TO IMPLEMENT ACTION:

Motion to adopt "AN ORDINANCE ADOPTING
THE ILLINOIS PLUMBING CODE AND
AMENDMENTS THERETO", as presented.



SUMMARY OF ITEM:

This ordinance will adopt the Illinois Plumbing Code and amendments thereto.

RECORD OF ACTION TAKEN:

Plumbing

ORDINANCE NO. _____

**AN ORDINANCE ADOPTING THE STATE OF ILLINOIS PLUMBING CODE
AND AMENDMENTS THERETO**

BE IT ORDAINED by the Village Council of the Village of Downers Grove in DuPage County, Illinois, as follows: (Additions are indicated by ~~shading~~/underline; deletions by ~~strikeout~~):

Section 1. That Section 16.200.ART. is hereby amended to read as follows:

16.200.ART. PLUMBING CODE

Section 2. That Section 16.201. is hereby amended to read as follows:

16.201. State of Illinois Plumbing Code - Adoption.

The 2004State of Illinois Plumbing Code, as promulgated by the Illinois Department of Public Health, is hereby adopted~~as amended from time to time, is hereby adopted by reference in its current form~~ for the purpose of establishing rules and regulations for the materials, construction, alteration and inspection of all plumbing placed in or in connection with any building within the Village. The same is adopted in its entirety, save and except such portions as are hereinafter amended, and is, together with such amendments, incorporated as fully as if set out at length herein, and shall control in the installation and maintenance of plumbing systems within the Village. Said plumbing code, as modified and amended, may be referred to for all purposes as the "Downers Grove Plumbing Code" or the "Plumbing Code". At least one copy of said Code, including such amendments to it as shall hereinafter be enacted, shall be filed in the office of the Village Clerk, with additional copies available in the Community Development Department of the Village. (Ord. No. 2808, § 2.)

Section 3. That Section 16.202. is hereby amended to read as follows:

16.202. State of Illinois Plumbing Code - Amendments.

The amendments to the State of Illinois Plumbing Code as referred to in this Chapter are the following:

~~Section 890.420~~ shall be amended to add the following condition:

——— 6. The standpipe inlet for an automatic clothes washer shall extend a minimum of 18 inches and a maximum of 48 inches above the weir of a trap.

~~Section 890.550~~ is amended by deleting the same in its entirety and substituting in lieu thereof the following:

——— ~~Backwater valves- Sanitary System and Storm System.~~ Backwater valves shall be provided as required by the Downers Grove Sanitary District.

~~Section 890.660 c)~~ is amended by deleting the same in its entirety and substituting in lieu thereof the following:

——— ~~890.660 c) Urinals.~~ Trough urinals and waterless urinals are prohibited.

~~Section 890.1130 c)~~ is amended by adding the following at the end of paragraph c):

——— "A backflow prevention device shall be installed, in accordance with the Environmental Protection

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Agency regulations, on each water service pipe/line to a business, commercial, or industrial facility unless the Director of Public Works, the Village Plumbing Inspector, or a designee, upon certification from a cross-connection control device inspector, determines that the building use does not pose an actual or potential hazard to the public water supply. This requirement applies whenever there is installation of a water service pipe/line, or alteration, renovation or replacement of an existing pipe/line, and for new construction.

Section 890.1150 a) 2) is amended by deleting the first sentence in its entirety and substituting in lieu thereof the following:

——— **890.1150 a) 2) Water service pipe installation.** When the 10 foot separation as described in no. 1 above cannot be achieved, the water service and building drain or building sewer may be installed in the same trench provided that the water service is placed on a solid shelf a minimum of 18 inches above the building drain or building sewer subject to review and approval of the code official prior to installation.

Section 890.1150 a) 3) shall be amended as follows:

The minimum depth for any water service pipe shall be at least sixty (60) inches or the maximum frost penetration of the local area, whichever is greater.

Section 890.1190 b) the first sentence shall be deleted in its entirety and substituting in lieu thereof the following:

890.1190 b) The utility meter shall be installed within the building.

Section 890.1190 f) shall be amended to delete the words "dwellings and" the first sentence.—

Section 890.1190 h) shall be added as follows:

——— **890.1190 h) Lawn sprinkling systems.** Accessible shut-off valves shall be provided for each lawn sprinkler system. Such shut-off valves shall permit the system to be shut-off without interference with the water supply to the building.

Section 890.1200 a) shall be deleted in its entirety and substituting in lieu thereof the following

——— **890.1200 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. New installations of water service pipe and fittings shall be at least (1) inch diameter. If flushometers or other devices requiring a higher rate of water flow are used, the water service pipe shall be designed and installed to provide this additional flow.

Section 890.1200 shall be further amended to add 890.1200 a) 1) as follows:

——— **890.1200 a) 1)** For addition and remodeling projects at existing single family homes, a pressure test performed per the State of Illinois guidelines, may be accepted in lieu of service sizing per fixture counts from Appendix A, Table N. Upon completion of a passing test, the owner shall forward the results to the State of Illinois Department of Public Health. A confirmation indicating the test results have been reviewed and approved shall be submitted to the Village prior to the issuance of the final certificate of occupancy.

Section 890.1220 a) shall be amended by adding the following to the end of the paragraph:

——— 890.1220 a) All potable hot water exposed supply lines shall be insulated per Sections 403, 503, and 504 of the International Energy Conservation Code.²²

Section 890.1360 a) 2) shall be deleted in its entirety and substituting in lieu thereof the following:

——— **890.1360 a) 2) Sanitary wastes below sewer.** Sumps and ejectors handling sub-soil drainage and footing drains shall not receive any sewage. Sumps and ejectors handling sewage shall not receive subsoil drainage and footing drains. Provide a 10 foot separation between the subsoil drainage pit and the sub drain ejector pit or as permitted by the Sanitary District.

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~~Section 890.1930 f~~ shall be deleted in its entirety and substituting in lieu thereof the following:

~~890.1930 f~~ Building Sewer. The building sewer shall be tested per the requirements of the Downers Grove Sanitary District.

~~Section 890 Appendix A Table A -- Approved materials for building sewer.~~ Shall be amended so that the requirements of the Downers Grove Sanitary District shall apply.

~~Section 890 Appendix A Table A -- Approved materials for water service pipe.~~ Shall be amended to delete item numbers 1, 2, 7, 8, 9, 10, 11, 13.

~~Section 890 Appendix A Table A -- Approved materials for water distribution pipe.~~ Shall be amended to delete item numbers 5 and 7

~~Section 890 Appendix A Table A -- Approved materials for water distribution pipe.~~ Shall be further amended to add the following note at the end of the table: The materials listed in item no. 3 and 4 above shall be Type L copper.

Section 4. That Section 16.303. is hereby amended to read as follows:

16.303. Permit Issuance.

(a) The required permit shall be issued only after a determination by the building official that the plans and specifications for the proposed work conform to the requirements of the Plumbing Code and payment of the fees in accordance with the schedule of fees in ~~Section 16.401 as set forth in Administrative Regulation entitled "User-Fee, License and Fine Schedule".~~

(b) In the case any work is begun on the installation of plumbing fixtures in any building or structure without a permit authorizing the same, the work shall be stopped until the necessary permit is issued and one hundred percent (100%) of a permit fee shall be added to the permit fee in accordance with Section 1.16 of the Downers Grove Municipal Code.

(c) No fees shall be refunded when a permit has lapsed after work is started. When a permit is revoked at the request of the applicant prior to lapsing due to time limits, and no work has been done, all but a basic fee to cover costs incurred by the building department and the plan review fee may be refunded.

Section 5. That Section 16.501. is hereby amended to read as follows:

16.501. Certificates of Inspection - Required; contents.

Upon the completion of the plumbing fixture installation in or on any building or structure, it shall be the duty of the person doing the work to request an inspection by the Community Development Department. If such plumbing fixture installation conforms to the requirements of this Chapter, a written certificate of satisfactory inspection shall be issued. One (1) copy of the certificate shall be delivered to the person which is to furnish electrical service, and one (1) copy shall be retained in the Village files. The certificate of inspection shall contain the date of such inspection, the location or address of the plumbing fixture installation by street number or lot number, the name of the person actually completing the work, and the name of the person for whom the plumbing fixture installation work was performed.

Each job for which a permit is issued shall be entitled to one (1) rough inspection and one (1) final inspection and each business or multiple family dwelling which is licensed by the Village of Downers Grove shall be entitled to one (1) inspection and one (1) re-inspection per license period. The fee for additional re-inspections due to failure to correct violations discovered during the initial inspections shall be as set forth in Administrative Regulation entitled "User-Fee, License and Fine Schedule". (Ord. No. 2808, § 2; Ord. No. 3356, § 1.)

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Section 6. That all ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

Section 7. That this ordinance shall be in full force and effect from and after its passage and publication in the manner provided by law.

Mayor

Passed:

Published:

Attest: _____
Village Clerk



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March 18, 2015

Alex Pellicano
Building Division Manager
Village of Downers Grove
801 Burlington Avenue
Downers Grove, IL 60515

RE: Draft Ordinance Submittal Review – Village of Downers Grove

Dear Mr. Pellicano,

The Illinois Department of Public Health (“IDPH” or “Department”) has reviewed the submittals provided by the Village of Downers Grove (the “Village”), received on March 18, 2015, for local ordinances related to the Illinois Plumbing Code (the “Code”; 77 Ill. Adm. 890). Pursuant to Section 36 of the Illinois Plumbing License Law (the “Law”; 225 ILCS 320/36) and Section 750.800(b) of the Illinois Plumbers Licensing Code (68 Il. Adm. Code 750.800(b)), IDPH is authorized to review and approve proposed ordinances of governmental units related to the design of plumbing materials and the operation and maintenance of plumbing systems. The Village’s proposed ordinances have been individually reviewed and the following are tentatively approved by the Department:

- Amendment of Section 890.1150 a) 3) as follows: “The minimum depth for any water service pipe shall be at least 60 inches or the maximum frost penetration of the local area, whichever is greater.”
- Deletion of Section 890.1190 b) and substituting in lieu thereof the following: “The utility meter shall be installed within the building.”

To proceed please provide your tentatively approved local ordinances to your village council for adoption. Once adopted the Village of Downers Grove shall provide a certified copy of the adopted ordinance, accompanied by a letter acknowledging that IDPH-approved ordinances are subject to Section 750.800 of the Plumbers Licensing Code, to IDPH. Whereupon, IDPH will issue Certificates of Approval for the IDPH-approved local ordinance amendments.

Please refer any questions concerning the approval process to Darrah Dunlap, Public Health Policy Analyst, at darrah.dunlap@illinois.gov or 217-785-2065.

Best Regards,

Justin DeWitt, P.E., LEED AP
Chief, General Engineering

GENERAL SUMMARY OF THE CHANGES TO THE ILLINOIS PLUMBING CODE

The following is a general summary of the changes to the Illinois Plumbing Code which became effective April 24, 2014. To access the Code electronically, visit www.ilphcc.com and click on the Illinois Plumbing Code under the Quick Links tab. The Illinois PHCC will be printing code books in the near future and will provide more detailed information as it is available.

	All sections	Date removed from Standard except in the Tables	
	Various sections	"Proper" replaced with "Approved"; "Appropriate" replaced with "the required", etc. General grammar and style corrections.	
SUBPART A	Changes "General Regulations" to "General Provisions".		
890.110	Changed the name of the section from "General Regulations" to "Applicability".		
890.120 Definitions	<p>Circuit Vent; deleted "which depend on siphonage for proper operation" from the definition.</p> <p>Code; changed to use the official reference to the Code. In reference to the local level, changed "code" to "rule or ordinance".</p> <p>Continuous Vent; deletes the sentence "A continuous vent is also known as a back vent or an individual vent".</p> <p>CCCDI; replaces the "Illinois EPA" with reference to the Title 35 rules.</p> <p>Department; new definition referring to the Illinois Department of Public Health.</p> <p>Drainage Fixture Unit; replaces "Fixture Unit, Drainage". Definition is the same.</p> <p>Existing Work; changes the date – "A plumbing system or any part of a plumbing system that has been installed prior to January 1, 2014".</p> <p>Graywater; Definition changed to read "Untreated waste water that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Graywater includes waste water from bathtubs, showers, lavatories, clothes washers and laundry tubs. Also known as gray water, grey water, and grey water".</p> <p>Individual Vent changed to Individual Dry Vent. Changed to read; "a pipe installed to vent a single fixture trap that connects with the vent system above the fixture served, or that terminates in the outside atmosphere". Added; See Appendix B. Illustration CC.</p> <p>Island Fixture Vent; changed to read "a vent in which the vent pipe rises as near as possible to or above the highest water level in the fixture vented and then turns down before rising to connect to the vent system 6 inches above the flood level rim or terminating to the atmosphere".</p>		<p>Kitchen or Bar Sink Faucet; new definition – "a faucet that discharges into a kitchen or bar sink in domestic or commercial applications. Supply fittings that discharge into other types of sinks, including, clinic sinks, floor sinks, service sinks and laundry trays are not included".</p> <p>Labeled; new definition – "an indication that an agency approved by the Department or that is an ANSI-accredited certification program has certified the plumbing material to be in compliance with applicable standards in accordance with this Part".</p> <p>Lavatory Faucet; new definition – "a faucet that discharges into a lavatory basin in a domestic or commercial installation".</p> <p>Lead Free; wording changed to meet the 2014 federal Safe Drinking Water Act.</p> <p>Loop Vent; deletes the phrase "which depend on self siphonage for proper operation".</p> <p>Main Vent; adds "a main vent may be a vent stack or a stack vent".</p> <p>Metering Faucet; new definition – "a self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable".</p> <p>Multi-person Showers; "shower compartments designed and intended for use by two or more persons simultaneously.</p> <p>Non-Potable Water; corrects the standard referenced.</p> <p>Pipe Increments; adds 1-1/4" to the list of pipe sizes.</p> <p>Potable Water; changed to read "water that meets drinking water standards specified in the Pollution Control Board's rules titled Primary Drinking Water Standards (35 Ill. Adm. Code 611), and is suitable for human consumption or culinary use".</p> <p>Pre-Rinse Spray Valve; new definition – "a hand-held device for use with commercial dishwashing and ware-washing equipment that sprays water on dishes, flatware, and other food service items for the purpose of removing food residue before cleaning and sanitizing items".</p> <p>Private Water Supply; deletes the reference to the Illinois Groundwater Protection Act.</p> <p>Self Closing Faucet; new definition – "a faucet that closes itself after the actuation or control mechanism is deactivated. The actuation or control mechanism can be mechanical or electronic".</p> <p>Water Closet; new definition – "a fixture with a water-containing receptor that receives</p>

GENERAL SUMMARY OF THE CHANGES TO THE ILLINOIS PLUMBING CODE

CONTINUED

	liquid and solid body waste and on actuation conveys the waste through an exposed integral trap into a drainage system. Also referred to as a toilet." Water Supply Fixture Unit ; replaces Fixture Unit, Water Supply. Definition is the same.	890.640 c) 3)	Corrects the standard for bathtub liners/ inserts.
890.130	Incorporated and Referenced Materials (List)	890.650 f)	Adds; "Seats for accessible water closets may be open or closed front, and may have a lid or not have a lid".
890.140	Replaces "Repairs and Alterations" with "Compliance with This Part".	890.650 g)	Corrects the standard for flushometer tank valves.
890.140 b) 1	Deletes part of the variance language.	890.680 e)	Changes the standard reference from ASSE 1016 to 1070 on water temperature for lavatories.
890.140 b) 2	Adds; "The Department will consider variances to this Part when the applicant has provided documentation citing the particular portion of this Part for which a variance is sought and has provided justification sufficient, in the opinion of the Department, to demonstrate that the variance will not create a condition less protective than that portion of this Part addressed in the variance request. Issuance of variances to this Part is at the sole discretion of the Department and may not be delegated or assumed by any other authority identified in this Part. Variance authorizations may be conditioned as determined by the Department and are not precedential".	890.690 b)	Water temperature for showers; corrects the standard.ASSE 1016/ASME A112.1016/ CSA B125.16 and adds ASSE 1070. Changes "gang" shower to "multi-person" shower.
890.180 e) & f)	Adds a note to see Appendix B. Illustration BB.	890.700 d)	Adds; "Service sinks, mop sinks, laundry trays or similar utility sinks shall be provided with hot water".
890.320 l) 3)	Joints in Plastic Drainage; adds "listed in Section 890. Appendix A. Table A.	890.700 e)	Adds; "Sinks in laboratories that are not designated for hand washing or personal hygiene may be supplied with cold water only".
890.330 b)	Corrects the standard to ASME B31.1.	890.720 f)	Adds the <u>Illinois Safe Bottled Water Act</u> to the requirements. Deletes reference to "IDPH's Public Area Sanitary Practice Code".
890.330 c)	Straight stops are added for push-on stops.	890.730 b)	Adds <u>high-density polyethylene (HDPE)</u> to the materials allowed for trench drains.
890.340 c)	Corrects the standard for cast iron joints in water supply pipe to AWWA C151.	890.750	Added "Hydromassage" in front of Whirlpool.
890.340 g) 1)	Plastic-Commingleing; adds "or approved solvent as listed in 890. Appendix A. Table A. for connections transitioning from one material to another, only.	890.750 b)	Corrects the standards and addresses suction fittings.
890.410	Changed "Traps" to "Fixture Traps/ Continuous Waste"	890.810 a) 1)	Adds "Individual businesses within the same building or within an enclosed mall may share public or employee restroom facilities, provided that the access to the restrooms does not require trespass on adjoining businesses or leased space. Restrooms shall be open at all times when any individual business within the same building or within an enclosed mall is open". Deletes the example given.
890.510 a) 3)	Deletes the prohibition of discharging a commercial dishwashing machine into the grease interceptor.	890.810 a) 2) A) ii)	Changes the floor area per person for "Assembly Places -Facilities for Spectator Events; Worship Places and Funeral Homes; Museums, Libraries,Exhibition Areas and Similar Uses" from 15 sq. ft. to 50 sq. ft.
890.520 d) 3)	Gas & Oil Interceptors; "Two or more vents may be connected to a header, which shall be 6 inches higher than the lowest floor or <u>trench drain served</u> ".	890.1010 e)	Clear water wastes; adds "refrigerated cases" and "vacuum waste systems". Deletes "building sewer".
890.520 d) 6)	Corrects Office of State Fire Marshal Code to add 174, 175, 176, 177 and deletes 170.		
890.630 e)	Adds; "Potable" in front of "Water Supply Connection".		

GENERAL SUMMARY OF THE CHANGES TO THE ILLINOIS PLUMBING CODE

CONTINUED

890.1120	Changes color for non-potable water marking from yellow to continuous purple; changes the reference to the correct standard.	890.1220 a) 8-9	Was 9), now 8). Added Z21.10.1 & Z21.10.1b for space heating.
890.1130 g) 7	Adds "with hot water storage" to the section on closed water systems with regards to backflow devices.	890.1220 a) 9) A)	POU water heaters; non-storage and non-pressurized units are exempt from relief valve requirements.
890.1140 h) 1) A)	Adds "and the water supply shall be protected against backflow and back siphonage by an air gap; or an RPZ."	890.1220 a) 9) B)	POU water heaters; units intended to deliver water 110 degrees or less shall have an internal burnout element. Deletes the option of a factory set thermostat. Units are exempt from relief valve requirements.
890.1140 h) 1) B)	Language changed to read "Chemical dispensing units shall have a dedicated water supply and shut-off valves to each unit. Each unit shall have a backflow device installed to protect against backflow and back siphonage".	890.1220 a) 10) (New)	Steam Heat.B) "All steam heat exchangers operating in excess of 15 psi, but less than 50 psi shall be separated by double wall construction, with an air gap open to the atmosphere between the two walls."
890.1140 k)	Adds requirements for the usage of water powered sump pumps.	890.1220 a) 10) C	Adds requirements for steam heat exchangers
890.1180 b) 3)	Changes the reference to labs certified for water testing.	890.1230 b) 2)	Replaces AGA with CSA
890.1190 a)	Requires a full port valve on inlet and outlet side of the meter.	890.1310 a)	Adds "and clear water vacuum waste systems" in reference to drainage materials.
890.1190 b)	Adds that a drain valve shall be installed on the discharge side of the meter valve when located inside of a building.	890.1320 a)	Requires <u>all</u> underground drainage systems to be installed on undisturbed earth or granular fill. Removes exemption for cast iron.
890.1190 d)	Requires that the valve in the cold water branch to a water storage tank or each water heater shall be within 5 developed feet of the tank or heater and be located in the same room.	890.1340 a)	Adds design language for Drainage similar to the requirements for Water Distribution. Also changes CIPE to CPD.
890.1190 e) & f)	"Shut off" replaced with "line" in reference to valves.	890.1340 b) 4)	Adds that the venting system is excluded from the requirement that any piping underground must be at least 2".
890.1190 g)	Deletes "or back to back" in reference to valve requirements in health care facilities.	890.1360 a) 1)	Adds the words "sewage ejection" between automatic and "pumping".
890.1210 a)	Adds "attic" to places where water pipes cannot be run unless provisions are made to prevent freezing.	890.1370 a)	Removes "When plumbing fixtures are installed on the level immediately above a crawl space, at least one trapped and vented floor drain shall be installed."
890.1210 b)	Replaces "CIPE" with "CPD".	890.1370 e) 1)	Deletes the requirement that floor drains in food establishments must be metallic.
890.1210 f)	Replaces "high pressure" with "pressure surges". (Water Hammer)	890.1370 e) 3)	Adds language to isolate these floor drains (in food establishments) from other sanitary discharge.
890.1220 a) 1)	Adds "the CSA" as an approved testing agency for equipment used for heating and storing hot water.	890.1420 a)	Added to (Vents) Design - "All fixture traps shall be protected by the use of a vent or venting system constructed in accordance with this Part".
890.1220 a) 2) A)	Allows the use of a single wall construction hot water heat exchanger in a solar system if a non-toxic transfer fluid is used. (2-5) rearranges the current language on heat exchangers.	890.1420 b)	Added to Installation - "Fixture Traps shall be protected by the appropriate method as follows: an individual dry vent, a wet vent, a common vent, a circuit or loop vent, an island vent, or a combination waste & vent system."
890.1220 a) 8)	Language changed and moved New 9) for P-O-U water heaters. Removed "instantaneous".		

GENERAL SUMMARY OF THE CHANGES TO THE ILLINOIS PLUMBING CODE

CONTINUED

890.1420 c)	Vent Terminals; moved to 890.1430		
890.1430 d) (new d was c)	d) Adds that no vent terminal can be within 4 feet of a vertical obstruction. e) states that <u>wet</u> vents in an exterior wall or adjacent to an unheated space must be protected from freezing.		
890.1450 b)	Vertical Rise; adds the following "Exception: Wet venting and floor drain vents may connect horizontally."		
890.1450 d)	Deletes: "Horizontal kitchen sink vents shall be above the flood level rim of the fixture".		
Venting Part	General Cleanup and Reorganization.		
890.1720 a)	Corrects the Standard for Correction Facility Water Closets.		
890.1730 a)	Corrects the Standard for Correctional Facility Urinals.		
890.1750 a)	Correct the Standard for Correctional Facility Service Sinks.		
890. Appendix A	Cleanup of addresses/listings on agencies/organizations.		
Appendix A. Table A	Updates standards for DWV. Adds: CPVC for chemical waste; Identification of Piping Systems; deletes steel. Updates standards for Building Sewer . Adds: HDPE pipe; Polypropylene Pipe; Identification of Piping Systems. Updates standards for Water Service . Adds: Stainless Steel. Updates standards for Water Distribution . Adds: Pex Distribution Systems & Joints; Stainless Steel. Updates standards for Fixtures & Fixture Fittings . Adds: enameled steel fixtures; trench drains; plastic urinals. Updates standards for Appliances/Appurtenances/Devices . Under mixing valves, adds: automatic compensating valves for individual showers and tub/shower combinations; mixing valves for hot water distribution; automatic temperature control mixing valves; water temperature limiting devices; mixing valves for emergency equipment; also adds; water closet personal hygiene devices; water softener and treatment devices.		200 females to 1 for each 150. Bathtubs/showers for Dormitories ; change in Footnote 13 now reads "The total number of bathing facilities shall include one bathtub for males and one bathtub for females or one individual user restroom with a bathtub. Drinking fountains for assembly places (sports arenas, etc.). Adds <u>High-Low</u> to 1 per each set of male and female restrooms. Drinking fountains for assembly places (theaters, etc.). Adds; "1 <u>High-Low</u> for each set of male and female restrooms. For Mercantile, malls , etc. it adds the same language. Water Closets for Mercantile, malls, etc. Changes the over 800 requirement for females from 1 for 175, to 1 for each 150. Businesses Selling Motor Fuel . Adds "1 service sink where public restrooms are required. Office/Public Buildings . Changes the water closet requirement for additional over 110 from 1 for each 40, to 1 for each 50. Changes additional lavatories for over 125 people from 1 for 45, to 1 for 50. Schools - Elementary and above, Day Care, Nursery, etc. Adds to the requirement for 1 service sink per floor "and kitchen area."
		Appendix A. Table D	Minimum Water Dist. Pipe Size . Adds "Dishwasher (commercial) 3/4 inch"; Kitchen sink (commercial) 1 faucet 1/2 inch"; Kitchen sink (commercial) 2 faucets 3/4 inch".
		Appendix A. Table M	Load Values Assigned to Fixtures . Water Closets Public/Private, Flush Tank changed from 5 to 3 WSFU. Lav. Public, Faucet changed from 1.5 to 1 WSFU. Shower Head Public, Mixing Valve changed from 3 to 2 WSFU. Service sink faucets, Office, etc. changed from 2.25 to 2. Shower stall mixing valve, private changed from 1.5 to 1. Laundry tray faucets, private changed from 2.25 to 2.
		Drawings Illustrations.	Cleanup and Clarification of all
Appendix A. Table B	Minimum Number of Fixtures . Drinking fountains for facilities for employee use changed from 1 per 75 to 1 per 100. Other fixtures for single or multiple dwelling, condo, or apt., hotel/motel; changed from 1 laundry tray or clothes washer connection for each 4 units to 1 for each 10 units. Water closets for assembly places (sports arenas, etc.) for over 800 people changed from 1 for each		