



MEMORANDUM

TO: Board of Building Appeals Members

FROM: William J. Heniff, AICP, Director of Community Development *WA*

MEETING DATE: February 27, 2017

SUBJECT: **BUILDING CODE AMENDMENTS – CHAPTER 150.050 OF THE VILLAGE CODE (PLUMBING)**

Staff is bringing the Plumbing Code Amendments back to BOBA after minor language changes have been made as suggested by the Illinois Department of Health (IDPH). The change is in the section of the code of amendments referring to the "WaterSense" requirement for new plumbing fixtures. The language change is not intended to change any of the past approved code amendment's intent, but were required to match the language suggested by the Illinois Department of Natural Resources.

Below are the proposed amendments to the Illinois Plumbing Code with deletions in strikeout and addition underlined. The amendments also include the previously discussed grease trap sizing provisions that were discussed and recommended for approval at the September 7, 2016 BOBA meeting. These amendments have been approved by the IDPH and will be brought forward to the Village Board concurrent with the WaterSense amendments.

§ 150.050 - Adoption by reference; amendments.

- (A) The Illinois State Plumbing Code. There is hereby adopted a certain code known as the "Illinois State Plumbing Code, latest edition as adopted by the Illinois Department of Health, for the purpose of prescribing regulations for plumbing fixtures, materials, and design and installation methods as minimum standards for plumbing in the Village of Lombard. Said "Illinois State Plumbing Code, latest edition" is hereby adopted by reference in its entirety, subject to those sections not adopted or amended pursuant to the provisions herein stated below of the Lombard Municipal Code.

Page 7 Appendix A Table A (Water Service)

Eliminate all material except: Type K copper

Ductile Iron

Page J 2 Section 890.1320 A 12 foot "suds zone" shall be installed at all commercial/multi-family buildings where a laundry stack is present. Suds zone shall tie in a minimum of 12 foot from closest fixture.

~~Page 1-14 890.1190 B Insert: EMT conduit for the water meter remote reader to be installed by contractor at time of rough inspection. The remote reader wires to be installed in the EMT conduit flush to the outside wall and within one foot of the water meter.~~

Section 890, Appendix A Approved Materials for Building Sewer. The approved materials are the following items: 3) Cast Iron Soil 7) Polyvinyl Chloride (PVC) Pipe Specifically: SDR 26 PVC (Green, AWWA C900 (Blue), ASTM D2241 (White) 12) Identification of Piping Systems

Delete items: 1, 2, 4, 5, 6, 8, 9, 10, and 11

Amends Section 890, Appendix A, Table A of the ILPC

150.053 The following water saving plumbing fixtures shall be required and labeled as a WaterSense product. In all new construction and in all repairs and replacement of fixtures or trim, only fixtures and trim not exceeding the following flow rates of water usage shall be installed (ratings are based on a pressure at the fixture of 40 to 50 pounds per square inch:

<u>Water closets, tank type</u>	<u>3-5 1.28 gal. per flush</u>
<u>Water closets, flushometer type</u>	<u>3-0 1.5 gal. per flush</u>
<u>Urinals, tank type</u>	<u>3-0 1.0 gal. per flush</u>
<u>Urinals, flushometer type</u>	<u>3-0 0.5 gal. per flush</u>
<u>Shower heads</u>	<u>3-0 2.0 gal. per minute</u>
<u>Lavatory, sink faucets</u>	<u>3-0 1.5 gal. per minute</u>

- a. All grease interceptors shall be sized based on one hundred (100) percent of the connected fixtures' liquid-holding capacity. To determine the liquid holding capacity of the connected fixtures, the fixture basin length is multiplied by the width then by the height in inches, then divided by 231, then divided by a 1-minute drain time. When two or more sinks or receptacles are connected to an interceptor the liquid-holding capacity shall be based on the combined volume of all the fixtures served as calculated above in addition to the flow rate of other fixture types per Section 890. TABLE R of the Illinois Plumbing Code as modified below multiplied by a one-minute drain time. For the purpose of sizing a hydro mechanical grease interceptor the resulting units are taken as gallons per minute, and for the purpose of sizing a gravity grease interceptor, as gallons.

All hydro mechanical grease interceptors shall bear a permanently affixed nameplate issued by a testing laboratory acceptable to the authority having jurisdiction which shall serve as the manufacturer's certification that the interceptor has been tested and certified for the specified flow rate. The nameplate shall be permanently marked with the manufacturer's name, the flow rate in gallons per minute, the grease capacity in pounds or the actual retained grease at breakdown, and the inlet and outlet sizes.

This code shall not prohibit the installation of two grease interceptors installed in a parallel system as long as each interceptor is properly sized as required in Section 890.510 a)2)i) for the connected fixture holding capacity.

Each FSE shall have a control manhole or sampling chamber installed and located at a point downstream of the GRS.

All kitchen drains and any other drains that may carry grease-laden waste shall be connected to this GRS, this includes but is not limited to; vegetable sinks, prep sinks, pre-rinse sinks,

wok lines hand sinks, mop basins, floor drains, and bar sinks. No domestic sewage shall be routed to the GRS.

If a Commercial Dishwasher is to be connected to a grease interceptor, it must either be a separate grease interceptor with no other fixture connected to it and sized for the dishwasher, or a grease interceptor that is 500 gallons or larger.

The Illinois Plumbing Code Section 890.510(a)(3) prohibits as interceptor from accepting waste from a food waste disposal, therefore, food waste disposals are prohibited from being installed in FSE's as all fixtures and drains that may waste fats, oils, and grease must be connected to an interceptor.

ACTION REQUESTED

Staff seeks the input and approval from BOBA regarding the proposed minor language changes to the Plumbing Code amendments as suggested by the Illinois Department of Health.

ORDINANCE NO. _____

**AN ORDINANCE GRANTING APPROVAL OF TEXT AMENDMENTS TO TITLE 15,
CHAPTER 150 OF THE LOMBARD VILLAGE CODE
RELATIVE TO PLUMBING CODE AMENDMENTS**

WHEREAS, the Village of Lombard maintains a Building Code which is found in Title 15, Chapter 150 of the Lombard Code; and,

WHEREAS, the Board of Trustees deem it reasonable to periodically review said Building Code and make necessary changes to reflect local and state amendments pertaining to proper grease trap and fixture sizing requirements; and,

WHEREAS, a review of the Building Code has been conducted by the Village of Lombard Board of Building Appeals on September 7, 2016 and February 27, 2017, and,

WHEREAS, the Board of Building Appeals has filed its recommendations with the President and Board of Trustees recommending approval of the text amendments described herein.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: That Title 15, Chapter 150 of the Lombard Village Code is hereby amended as follows with text amendments in **bold and underline** and deletions denoted by ~~strikethrough~~:

§ 150.050 - Adoption by reference; amendments.

- (A) The Illinois State Plumbing Code. There is hereby adopted a certain code known as the "Illinois State Plumbing Code, latest edition as adopted by the Illinois Department of Health, for the purpose of prescribing regulations for plumbing fixtures, materials, and design and installation methods as minimum standards for plumbing in the Village of Lombard. Said "Illinois State Plumbing Code, latest edition" is hereby adopted by reference in its entirety, subject to those sections not adopted or amended pursuant to the provisions herein stated below of the Lombard Municipal Code.

Page 7 Appendix A Table A (Water Service)

Eliminate all material except: Type K copper

Ductile Iron

Page J 2 Section 890.1320 A 12 foot "suds zone" shall be installed at all commercial/multi-family buildings where a laundry stack is present. Suds zone shall tie in a minimum of 12 foot from closest fixture.

~~Page I 14 890.1190 B Insert: EMT conduit for the water meter remote reader to be installed by contractor at time of rough inspection. The remote reader wires to be installed in the EMT conduit flush to the outside wall and within one foot of the water meter.~~

Section 890, Appendix A Approved Materials for Building Sewer. The approved materials are the following items: 3) Cast Iron Soil 7) Polyvinyl Chloride (PVC) Pipe Specifically; SDR 26 PVC (Green, AWWA C900 (Blue), ASTM D2241 (White) 12) Identification of Piping Systems

Delete items: 1, 2, 4, 5, 6, 8, 9, 10, and 11

Amends Section 890. Appendix A. Table A of the ILPC

150.053 The following water saving plumbing fixtures shall be required and labeled as a WaterSense product. In all new construction and in all repairs and replacement of fixtures or trim, only fixtures and trim not exceeding the following flow rates of water usage shall be installed (ratings are based on a pressure at the fixture of 40 to 50 pounds per square inch:

<u>Water closets, tank type</u>	<u>3.5 1.28 gal. per flush</u>
<u>Water closets, flushometer type</u>	<u>3.0 1.5 gal. per flush</u>
<u>Urinals, tank type</u>	<u>3.0 1.0 gal. per flush</u>
<u>Urinals, flushometer type</u>	<u>3.0 0.5 gal. per flush</u>
<u>Shower heads</u>	<u>3.0 2.0 gal. per minute</u>
<u>Lavatory, sink faucets</u>	<u>3.0 1.5 gal. per minute</u>

- a. All grease interceptors shall be sized based on one hundred (100) percent of the connected fixtures' liquid-holding capacity. To determine the liquid holding capacity of the connected fixtures, the fixture basin length is multiplied by the width then by the height in inches, then divided by 231, then divided by a 1-minute drain time. When two or more sinks or receptacles are connected to an interceptor the liquid-holding capacity shall be based on the combined volume of all the fixtures served as calculated above in addition to the flow rate of other fixture types per Section 890. TABLE R of the Illinois Plumbing Code as modified below multiplied by a one-minute drain time. For the purpose of sizing a hydro mechanical grease interceptor the resulting units are taken as gallons per minute, and for the purpose of sizing a gravity grease interceptor, as gallons.

All hydro mechanical grease interceptors shall bear a permanently affixed nameplate issued by a testing laboratory acceptable to the authority having jurisdiction which shall serve as the manufacturer's certification that the interceptor has been tested and

certified for the specified flow rate. The nameplate shall be permanently marked with the manufacturer’s name, the flow rate in gallons per minute, the grease capacity in pounds or the actual retained grease at breakdown, and the inlet and outlet sizes.

This code shall not prohibit the installation of two grease interceptors installed in a parallel system as long as each interceptor is properly sized as required in Section 890.510 (a)(2)(i) for the connected fixture holding capacity.

Each FSE shall have a control manhole or sampling chamber installed and located at a point downstream of the GRS.

All kitchen drains and any other drains that may carry grease-laden waste shall be connected to this GRS, this includes but is not limited to; vegetable sinks, prep sinks, pre-rinse sinks, wok lines hand sinks, mop basins, floor drains, and bar sinks. No domestic sewage shall be routed to the GRS.

If a Commercial Dishwasher is to be connected to a grease interceptor, it must either be a separate grease interceptor with no other fixture connected to it and sized for the dishwasher, or a grease interceptor that is 500 gallons or larger.

The Illinois Plumbing Code Section 890.510(a)(3) prohibits an interceptor from accepting waste from a food waste disposal, therefore, food waste disposals are prohibited from being installed in FSE’s as all fixtures and drains that may waste fats, oils, and grease must be connected to an interceptor.

SECTION 2: That this ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

Passed on first reading this ____ day of _____, 2017.

First reading waived by action of the Board of Trustees this ____ day of _____, 2017.

Passed on second reading this ____ day of _____, 2017 pursuant to a roll call vote as follows:

Ayes: _____

Nays: _____

Absent: _____

Approved by me this _____, day of _____, 2017.

Keith T. Giagnorio, Village President

ATTEST:

Sharon Kuderna, Village Clerk

Published by me in pamphlet form this ____ day of _____, 2017.

Sharon Kuderna, Village Clerk
