



Residential Water Service Line - Sizing

When constructing a new home, or completing a remodeling project that includes adding plumbing fixtures to a home, the State of Illinois Plumbing Code must be followed for determining the water service line size required for the home. The charts appearing on the next page are developed from the State Plumbing Code requirements, and shall be used to determine the required size of the incoming water service line.

The minimum size water service line for all new homes in the Village of Lake in the Hills is 1-inch, per Section 45.31(F)(3) of the Municipal Code and may be larger depending on the design of the new home.

For remodeling projects, when plumbing fixtures are being added to a home, the size of water service needed shall be calculated per the State Plumbing Code tables (fill in the chart on the next page).

In some instances of remodeling projects there are very minor changes (i.e. one sink is being added). However, it can still result in needing a larger size water line per the code tables. In these instances, a pressure test may be performed per the procedure steps of the State. If the test shows the home has sufficient pressure with all fixtures in place, the need to upgrade the service line will be optional. Please contact the Village Community Development Department for further details on the specific procedures pertaining to how to perform a pressure test per State guidelines. Note- this option is only permitted for remodeling projects, not new homes.

Please complete the chart on the next page, as applicable to the project, and submit with the building permit application, and project documents for permit review.

HELPFUL LINKS AND ADDITIONAL INFORMATION

Per the Lake in the Hills Municipal Code and the State of Illinois Administrative Code, all work shall comply with the most current edition of the State of Illinois Plumbing Code.

To review all requirements contained in the State of Illinois Plumbing Code visit:

<https://www.ilga.gov/commission/jcar/admincode/077/07700890sections.html>

Residential Water Service Line Sizing- Determined by the State of Illinois Plumbing Code

Project Address: _____

<u>FIXTURE TYPE</u>	<u>QUANTITY IN HOME</u>	<u>MULTIPLY BY</u>	<u>FIXTURE UNITS- PER STATE COI</u>	<u>TOTAL</u>
Toilet	_____	x	3	= _____
Hand sink	_____	x	1	= _____
Bathtub	_____	x	2	= _____
Shower stall	_____	x	2	= _____
Kitchen sink	_____	x	2	= _____
Dishwasher	_____	x	1	= _____
Clothes washer	_____	x	2	= _____
Laundry tub	_____	x	3	= _____
() Other	_____	x	_____	= _____
	_____	x	_____	= _____
GRAND TOTAL FOR HOME				_____

<u>GRAND TOTAL FIXTURE UNIT</u>	<u>SERVICE LINE SIZE NEEDED</u>	<u>METER SIZE NEEDED</u>
10-19	¾ line ¹	¾ meter ²
20-29	1-inch line	¾ meter ²
30-34	1-inch line	1-inch meter
35-59	1-¼-inch line	1-inch meter
60-99	1-½- inch line	1-½ inch meter

Notes:

¹ A ¾-inch service line may exist in homes in the original portion of Lake in the Hills. If plumbing fixtures are being added during a remodeling/rebuild project, an increase in line size may be needed per the table and procedures above.

² Meter size of ¾-inch is listed in the State Code for certain size water services. However, the minimum size water meter provided in Lake in the Hills is a 1-inch size meter.