



# FORM 3.2

## VILLAGE OF NORTHBROOK Development & Planning Services

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### Water Service & Meter Worksheet

Address		Date	
<b>Fixture Load Calculations:</b>			
Fixture Type	Unit	Number of Fixtures	Fixture Load
Water Closet	3 x		=
Lavatory	1 x		=
Bathtub/Shower	2 x		=
Kitchen Sink	2 x		=
Dishwasher	1 x		=
Laundry Sink (Laund Tray)	3 x		=
Laundry Machine	2 x		=
<b>Total Fixture Load</b>			<b>=</b>
<b>Water Service Pipe Size Req'd.</b> <small>Based on chart below</small>		<b>Water Meter Size Req'd.</b> <small>Based on chart below</small>	
<b>Proposed Service Size</b>		<b>Existing Meter Size</b>	

<b>Water Supply Fixture Units (W.S.F.U.)</b> <small>for a supply system with flush tanks</small>					
W.S.F.U.	Demand (GPM)	Pipe Size (Inches)	Pressure Loss (PSI/100' of Pipe)	Velocity (Ft/Sec)	Meter Size (Inches)
2 - 3	2	½	4.2	2.7	5/8
4 - 5	3	½	8.7	4.2	5/8
6 - 7	5	½	22.5	7.0	5/8
8 - 9	6.5	¾	6.3	4.3	5/8
10 - 11	8	¾	9.0	5.4	¾
12 - 13	9.2	¾	11.5	6.1	¾
14 - 15	10.4	¾	15.0	6.9	¾
16 - 19	11.6	¾	18.0	7.7	¾
20 - 24	14	1	7.2	5.6	¾
25 - 29	17	1	10.0	6.6	¾
30 - 34	20	1	13.6	8.0	1
35 - 39	22.5	1 ¼	5.8	5.7	1
40 - 44	25	1 ¼	7.0	6.3	1
45 - 49	27	1 ¼	8.2	6.9	1
50 - 59	29	1 ¼	9.5	7.4	1
60 - 69	32	1 ½	5.0	5.8	1 ½
70 - 79	35	1 ½	6.2	6.4	1 ½
80 - 89	38	1 ½	7.0	7.2	1 ½
90 - 99	41	1 ½	8.0	7.5	1 ½
100 - 119	43.5	1 ½	8.7	7.8	2
120 - 139	48	2	2.7	5.0	2
140 - 159	52.5	2	3.1	5.4	2
160 - 179	57	2	3.6	5.8	2
180 - 199	61	2	3.9	6.1	2
200 - 224	65	2	4.5	6.6	2
225 - 249	70	2	5.2	7.1	2
250 - 274	75	2	6.0	7.7	3
275 - 299	80	2 ½	2.6	5.5	3
300 - 349	85	2 ½	2.9	5.8	3
350 - 399	95	2 ½	3.5	6.5	3
400 - 449	105	2 ½	4.2	7.1	3

Information from 2004 Illinois State Plumbing Code, Section 890, Appendix A, Tables M & N

Name of person completing this form: \_\_\_\_\_

5-23-2013

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