

# IMMOKALEE WATER & SEWER DISTRICT

1020 SANITATION ROAD

IMMOKALEE, FL 34142

TELEPHONE (239) 658-3630

## WATER METER SIZING FORM

### Applicant Information

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### Project Information

Date: \_\_\_\_\_

County Permit or Application Number: \_\_\_\_\_

Name of Project: \_\_\_\_\_

Project Address: \_\_\_\_\_

### **Please Note:**

1. All commercial facilities must be metered separately from residential facilities with the exception of those commercial facilities that are within a master metered residential development and designed for the exclusive use of the residents within such development.
2. The Design Engineer/Architect must submit signed and sealed documentation supporting meter sizing. Sizing shall be based upon fixture flow values, as shown on the following page and the table on page 3, unless approved otherwise by Utility Deviation. If an increase in meter size is requested to accommodate for fire flow, the Engineer/Architect should check appropriate box below. A Utility Deviation will not be required for increasing meter size for fire flow requirements. For all meter sizes, the Engineer/Architect must consider all relevant factors before selecting the final meter size.
3. For remodeling projects, this form must be submitted only if there is a net increase in fixture flow value.

### ***This Section to be filled out by Engineer/Architect of Record:***

Demand in accordance with the attached Fixture Flow Value  
Worksheet(s) and the Table for Estimating Demand:  
Meter Size Required:

\_\_\_\_\_ GPM

Meter Size Required: \_\_\_\_\_

Meter Size Requested: \_\_\_\_\_

If the meter size requested is larger than the meter size required per  
the table below, please indicate the reason for the request by  
checking the appropriate box:

Existing Meter Size: \_\_\_\_\_

Fire Flow  Other (Please attach Utility Deviation Approval)

\_\_\_\_\_  
Type or Print Name of Engineer/Architect of Record for Project

Demand Range (GPM)	Meter Size
0 to 30	3/4"
30.1 to 50	1"
50.1 to 100	1 1/2"
100.1 to 160	2"
160.1 to 450	3"
450.1 to 1,000	4"
1,000.1 to 2,000	6"
2,000.1 to 3,500	8"

\_\_\_\_\_  
Signature of Engineer/Architect of for Project and Date  
[Affix Engineering/Architect Stamp Here]

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## Fixture Flow Value Worksheet

Enter # of Fixtures of each Fixture Type, per unit, then multiply by appropriate Flow Rate to get Fixture Value

Fixture	Flow Rate	# of Fixtures Per Unit	Fixture Flow Value
Automatic clothes Washer			
Commercial	3	x	=
Residential	2	x	=
Bathroom group			
As defined in FL Plumbing Code Section 202 (1.6 gpf water closet)	5	x	=
Bathtub	4	x	=
Bidet	2	x	=
Dental unit or cuspidor	1	x	=
Dishwasher, residential	2.75	x	=
Drinking fountain	0.75	x	=
Shower	3	x	=
Sillcock, hose bibb	5	x	=
Sink (per faucet)			
Kitchen, residential	2	x	=
Laundry tray	4	x	=
Lavatory	2	x	=
Service	3	x	=
Wash	2	x	=
Urinal			
Standard	4	x	=
Flushless	0	x	=
Valve*      Gallons/Flush =	x10	x	=
Water Closet			
Flushometer valve* Gallons/Flush =	x10	x	=
Flushometer tank	1.6	x	=
Tank	4	x	=
For any fixtures not listed, submit manufacturer's data sheets and enter appropriate description and value:			
Other:		x	=
Other:		x	=
Other:		x	=
Other:		x	=
Other:		x	=

<b>Total Fixture Value Per Unit =====&gt;</b>	
<b>Number of Units with this Fixture Count =====&gt;</b>	
<b>Grand Total of Fixture Flow Value (Per Unit Total x Number of Units)** =====&gt;</b>	

\*Valves are calculated using a flush rate of 10 flushes per minute (according to Florida Plumbing Code).  
The flow rate is 10 times the gallons per flush. The fixture flow value is calculated as follows:

Number of Valves	Calculation
1 - 2	Flow Rate <b>times</b> Number of Fixtures.
3 - 10	Flow Rate <b>times</b> two <b>plus</b> two <b>times</b> the Number of Fixtures.
11 or more	Flow Rate <b>times</b> Number of Fixtures <b>divided</b> by two.

\*\*Use total Fixture Flow Value on "Table for Estimating Demand" to estimate water meter demand.

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**Table for Estimating Demand**

SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS		SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH VALVES	
Load	Demand	Load	Demand
Fixture Flow Value	Gallons per minute	Fixture Flow Value	Gallons per minute
1	3.0	---	---
2	5.0	---	---
3	6.5	---	---
4	8.0	---	---
5	9.4	5	15.0
6	10.7	6	17.4
7	11.8	7	19.8
8	12.8	8	22.2
9	13.7	9	24.6
10	14.6	10	27.0
11	15.4	11	27.8
12	16.0	12	28.6
13	16.5	13	29.4
14	17.0	14	30.2
15	17.5	15	31.0
16	18.0	16	31.8
17	18.4	17	32.6
18	18.8	18	33.4
19	19.2	19	34.2
20	19.6	20	35.0
25	21.5	25	38.0
30	23.3	30	42.0
35	24.9	35	44.0
40	26.3	40	46.0
45	27.7	45	48.0
50	29.1	50	50.0
60	32.0	60	54.0
70	35.0	70	58.0
80	38.0	80	61.2
90	41.0	90	64.3
100	43.5	100	67.5
120	48.0	120	73.0
140	52.5	140	77.0
160	57.0	160	81.0
180	61.0	180	85.5
200	65.0	200	90.0
225	70.0	225	95.5
250	75.0	250	101.0
275	80.0	275	104.5
300	85.0	300	108.0
400	105.0	400	127.0
500	124.0	500	143.0
750	170.0	750	177.0
1,000	208.0	1,000	208.0
1,250	239.0	1,250	239.0
1,500	269.0	1,500	269.0
1,750	297.0	1,750	297.0
2,000	325.0	2,000	325.0
2,500	380.0	2,500	380.0
3,000	433.0	3,000	433.0
4,000	535.0	4,000	535.0
5,000	593.0	5,000	593.0