



Medina County Sanitary Engineers

791 W. Smith Road

Medina, Ohio 44256

Office: (330)723-9581 or (330)723-9599

Fax: (330) 764-8349

New Construction: _____ Existing Building: _____ New Tenant: _____ New Addition: _____

Application for Sewer / Water Permit			
Commercial: _____	Sewer: _____	Water: _____	Contractor Name: _____
Industrial: _____	Sewer: _____	Water: _____	Registration Number: _____
Residential: _____	Sewer: _____	Water: _____	Phone Number: _____

Service Address	
Address: _____	City / Township: _____
Parcel Number: _____	Zip Code: _____
Subdivision: _____	City Lot / Sublot: _____

Contact Information	
Name: _____	Builder Name: _____
Address: _____	Phone Number: _____
City / Township: _____	Email Address: _____
State: _____	Zip Code: _____

Billing Information		
Name: _____	Phone Number: _____	
Address: _____	Email Address: _____	
City / Township: _____	State: _____	Zip Code: _____

The applicant acknowledges that he/she is aware that improvement and extensions to the system to which this connection is being sought may be necessary, and that the property which is the subject of this application may be required to pay a portion of the cost thereof either in the form increased sewer/water rentals or special assessments. The applicant further acknowledges receipt of procedures to install new sewer and water service connections and agrees to abide by said regulations.

Signed: _____

Date: _____

Fees quoted by the MCSE's Permit Department are valid for 30 days from date of quote

Forms Included With Permit Application (Office Use Only)		
Sewer Form: S-1 _____	Calculation Sheet: Calc-1 _____	Sewer Permit: _____
Water Form: W-1 _____	Water Data Sheet: D-Com _____	Water Permit: _____
Connection Drawing: _____	D-Res _____	Account No: _____

Water Connection Data (Form W-1)

Water Permit Number: _____

General Information						
Rack: _____	Sheet: _____	Posted: _____	Short Tap: _____	Long Tap: _____	Index # _____	
District: _____		WD Project # _____		Street: _____		
Assessment: _____		Restricted Main: _____		MCSE: _____		Subdivision: _____
_____ ODOT Permit to be obtained by applicant				_____ Road Work Permit to be obtained by applicant		
_____ ODOT Permit to be obtained by MCSE				_____ Owner to contact Health Department (Septic / Well / Cistern)		

Existing Connection
Connection to be located by applicant: _____
Notes: _____

New Connection
Tap to be made: _____ X _____ Connection to be located by applicant: _____
<small>Tap Size Main Size Material</small>
Location data is not guaranteed by MCSE. Contractor is cautioned to conduct field investigation to locate before digging.

Pressure Reducer	Recommended: _____	Required: _____
Meter Information	Vault: _____	Meter: _____
	Type: _____	

Assessment	Restricted Main
Project Number: _____	Project Number: _____
Assessment Amount: _____	Connection Fee: _____
To Be Paid To: _____	To Be Paid To: _____

Billable Units: _____	(See calculation sheet if applicable)
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Water Fees	Additional Notes
Permit:	
Frontage Tap-in:	
Storage Tank Fee:	
Capacity Charge:	
Water Meter:	
Water Tap:	
Construction Water:	
Petition Credit:	
Assessment:	
Restricted Main:	
Other:	
Paid to:	
Connection Fee:	
Total:	
\$0.00	

Permit Issued By: _____ Receipt Number: _____ Date: _____



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Residential Water Meter Customer Data Sheet (Form D-Res)

Service Address	Contact Information
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Address: _____	Name: _____
City/State/Zip: _____	Phone: _____

Fixture Type <small>(Common Fixtures Listed Below)</small>	Number of Fixtures	Total Number of Fixtures		IPC Load Value	IPC Total Fixture Units
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	Number of Fixtures		Total Number of Fixtures		IPC Load Value		IPC Total Fixture Units
	Existing	Proposed			Total Hot and Cold		
Bathtubs	+		0	x	1.4	=	0
Bathtubs with Shower Heads	+		0		1.4	=	0
Shower Stalls	+		0	x	1.4	=	0
Dishwasher	+		0	x	1.4	=	0
Sinks <small>(kitchen/bath/other) (each set of faucets)</small>	+		0	x	1.4	=	0
Toilet	+		0	x	2.2	=	0
Washing Machine	+		0	x	1.4	=	0
1 st Hose Bibb	+		0	x	2.5	=	0
Each Additional Hose Bibb	+		0	x	1.0	=	0
Other:	+		0	x		=	0
Other:	+		0	x		=	0
Other:	+		0	x		=	0
Other:	+		0	x		=	0

Note: All listed fixtures values are from IPC Table 103.3(2), for fixtures not listed, loads should be assumed by comparing the fixture to one listed using water in similar quantities and at similar rates. If GPM demand is known use IPC Table 103.3(3)

Total Combined Fixture Value = 0

Does your home have a basement?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
Does your home have a second story?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
Is there, or will you be installing a Fire Sprinkler System?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
<small>If yes, what is the approximate peak demand:</small>			Peak Demand (GPM) =	
Is there, or will you be installing a Lawn Irrigation System?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
<small>If yes, what is the approximate peak demand:</small>			Peak Demand (GPM) =	
Is there a pond, creek, or lake within 50' of where you are running the water line service?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
What type of heat do you have in your home?	Type: _____			
If Boiler, is it a separately contained system?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
Will this water connection service any other buildings on the property?	Y <input type="checkbox"/>	N <input type="checkbox"/>		
<small>If yes, type and peak demand:</small>			Peak Demand (GPM) =	

I affirm that the information given is accurate and acknowledge that approval of meter size and maximum water capacity is based solely on the information provided above, and such determination is at the discretion of the Medina County Sanitary Engineers.

Owner/Agent: _____ Date: _____

Office Use Only

Total Fixture Value: _____ Additional Flow: _____ Total GPM = _____

Connection Information	Tower Information
Service Address Elevation: _____	Tower: _____
Distance from water main to R/W (Ft): _____	Tower Elevation Maximum: _____
Distance from R/W to House (Ft): _____	Tower Elevation Minimum: _____
Connection Size: _____	Line Pressure PSI (Max, Min): _____ & _____



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Commercial Water Meter Customer Data Sheet (Form D-Com)

Service Address	Contact Information
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Address: _____	Name: _____
City/State/Zip: _____	Phone: _____

Fixture Type (Common Fixtures Listed Below)	Number of Fixtures		Total Number of Fixtures		IPC Load Value	IPC Total Fixture Units
	Existing	Proposed				
					Total Hot and Cold	
Bathtub	Private	+	0	X	1.4	= 0
	Public	+	0	X	4.0	= 0
Dishwasher		+	0	X	1.4	= 0
Drinking Fountain	Offices, etc.	+	0	X	0.3	= 0
Sink (Per Compartment)	Private	+	0	X	1.4	= 0
	Public – Hotel Restaurant, etc	+	0	X	4.0	= 0
Laundry Tray		+	0	X	1.4	= 0
Lavatory	Private	+	0	X	0.7	= 0
	Public	+	0	X	2.0	= 0
Service Sink	Offices, etc.	+	0	X	3.0	= 0
Shower Head	Private	+	0	X	1.4	= 0
	Public	+	0	X	4.0	= 0
Urinal	1" Flush	+	0	X	10.0	= 0
	3/4" Flush	+	0	X	5.0	= 0
	Flush Tank	+	0	X	3.0	= 0
Washing Machine	Private (8 lb)	+	0	X	1.4	= 0
	Public (8 lb)	+	0	X	3.0	= 0
	Public (15 lb)	+	0	X	4.0	= 0
Water Closet (Flush Valve)	Private	+	0	X	6.0	= 0
	Public	+	0	X	10.0	= 0
Water Closet (Tank Type)	Private	+	0	X	2.2	= 0
	Public	+	0	X	5.0	= 0
	Flushometer	+	0	X	2.0	= 0
1 st Hose Bibb		+	0	X	2.5	= 0
Additional Hose Bibb		+	0	X	1.0	= 0
Other:		+	0	X		= 0
Other:		+	0	X		= 0
Other:		+	0	X		= 0

Note: All listed fixtures values are from IPC Table 103.3(2), for fixtures not listed, loads should be assumed by comparing the fixture to one listed using water in similar quantities and at similar rates. If GPM demand is known use IPC Table 103.3(3)

Total Combined Fixture Value	=	
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Is there, or will you be installing a Fire Sprinkler System? <small>If yes, type and peak demand:</small>	Y <input type="checkbox"/>	N <input type="checkbox"/>	
Is there, or will you be installing an Lawn Irrigation System? <small>If yes, type and peak demand:</small>	Y <input type="checkbox"/>	N <input type="checkbox"/>	Peak Demand (GPM) = _____
Any process water or special water use? (not included in above fixtures) <small>If yes, type and peak demand:</small>	Y <input type="checkbox"/>	N <input type="checkbox"/>	Peak Demand (GPM) = _____

I affirm that the information given is accurate and acknowledge that approval of meter size and maximum water capacity is based solely on the information provided above, and such determination is at the discretion of the Medina County Sanitary Engineers.

Owner/Agent: _____ Date: _____

Design/Mechanical Engineer/Plumber: _____ Date: _____

Office Use Only

Total Fixture Value: _____	Additional Flow: _____	Total GPM = _____
Connection Information		Tower Information
Service Address Elevation: _____		Tower: _____
Distance from water main to R/W (Ft): _____		Tower Elevation Maximum: _____
Distance from R/W to House (Ft): _____		Tower Elevation Minimum: _____
Connection Size: _____		Line Pressure PSI (Max, Min): _____ & _____

APPENDIX E

TABLE E103.3(2)
LOAD VALUES ASSIGNED TO FIXTURES^a

FIXTURE	OCCUPANCY	TYPE OF SUPPLY CONTROL	LOAD VALUES, IN WATER SUPPLY FIXTURE UNITS (wsfu)		
			Cold	Hot	Total
Bathroom group	Private	Flush tank	2.7	1.5	3.6
Bathroom group	Private	Flush valve	6.0	3.0	8.0
Bath tub	Private	Faucet	1.0	1.0	1.4
Bath tub	Public	Faucet	3.0	3.0	4.0
Bidet	Private	Faucet	1.5	1.5	2.0
Combination fixture	Private	Faucet	2.25	2.25	3.0
Dishwashing machine	Private	Automatic	—	1.4	1.4
Drinking fountain	Offices, etc.	$\frac{3}{8}$ " valve	0.25	—	0.25
Kitchen sink	Private	Faucet	1.0	1.0	1.4
Kitchen sink	Hotel, restaurant	Faucet	3.0	3.0	4.0
Laundry trays (1 to 3)	Private	Faucet	1.0	1.0	1.4
Lavatory	Private	Faucet	0.5	0.5	0.7
Lavatory	Public	Faucet	1.5	1.5	2.0
Service sink	Offices, etc.	Faucet	2.25	2.25	3.0
Shower head	Public	Mixing valve	3.0	3.0	4.0
Shower head	Private	Mixing valve	1.0	1.0	1.4
Urinal	Public	1" flush valve	10.0	—	10.0
Urinal	Public	$\frac{3}{4}$ " flush valve	5.0	—	5.0
Urinal	Public	Flush tank	3.0	—	3.0
Washing machine (8 lb)	Private	Automatic	1.0	1.0	1.4
Washing machine (8 lb)	Public	Automatic	2.25	2.25	3.0
Washing machine (15 lb)	Public	Automatic	3.0	3.0	4.0
Water closet	Private	Flush valve	6.0	—	6.0
Water closet	Private	Flush tank	2.2	—	2.2
Water closet	Public	Flush valve	10.0	—	10.0
Water closet	Public	Flush tank	5.0	—	5.0
Water closet	Public or private	Flushometer tank	2.0	—	2.0

For SI: 1 inch = 25.4 mm, 1 pound = 0.454 kg.

a. For fixtures not listed, loads should be assumed by comparing the fixture to one listed using water in similar quantities and at similar rates. The assigned loads for fixtures with both hot and cold water supplies are given for separate hot and cold water loads and for total load. The separate hot and cold water loads being three-fourths of the total load for the fixture in each case.

**TABLE E103.3(3)
TABLE FOR ESTIMATING DEMAND**

SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS			SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH VALVES		
Load	Demand		Load	Demand	
(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)	(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)
1	3.0	0.04104	—	—	—
2	5.0	0.0684	—	—	—
3	6.5	0.86892	—	—	—
4	8.0	1.06944	—	—	—
5	9.4	1.256592	5	15.0	2.0052
6	10.7	1.430376	6	17.4	2.326032
7	11.8	1.577424	7	19.8	2.646364
8	12.8	1.711104	8	22.2	2.967696
9	13.7	1.831416	9	24.6	3.288528
10	14.6	1.951728	10	27.0	3.60936
11	15.4	2.058672	11	27.8	3.716304
12	16.0	2.13888	12	28.6	3.823248
13	16.5	2.20572	13	29.4	3.930192
14	17.0	2.27256	14	30.2	4.037136
15	17.5	2.3394	15	31.0	4.14408
16	18.0	2.90624	16	31.8	4.241024
17	18.4	2.459712	17	32.6	4.357968
18	18.8	2.513184	18	33.4	4.464912
19	19.2	2.566656	19	34.2	4.571856
20	19.6	2.620128	20	35.0	4.6788
25	21.5	2.87412	25	38.0	5.07984
30	23.3	3.114744	30	42.0	5.61356
35	24.9	3.328632	35	44.0	5.88192
40	26.3	3.515784	40	46.0	6.14928
45	27.7	3.702936	45	48.0	6.41664
50	29.1	3.890088	50	50.0	6.684
60	32.0	4.27776	60	54.0	7.21872
70	35.0	4.6788	70	58.0	7.75344
80	38.0	5.07984	80	61.2	8.181216
90	41.0	5.48088	90	64.3	8.595624
100	43.5	5.81508	100	67.5	9.0234
120	48.0	6.41664	120	73.0	9.75864
140	52.5	7.0182	140	77.0	10.29336
160	57.0	7.61976	160	81.0	10.82808
180	61.0	8.15448	180	85.5	11.42964
200	65.0	8.6892	200	90.0	12.0312
225	70.0	9.3576	225	95.5	12.76644
250	75.0	10.026	250	101.0	13.50168

(continued)

**TABLE E103.3(3)—continued
TABLE FOR ESTIMATING DEMAND**

SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS			SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH VALVES		
Load	Demand		Load	Demand	
(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)	(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)
275	80.0	10.6944	275	104.5	13.96956
300	85.0	11.3628	300	108.0	14.43744
400	105.0	14.0364	400	127.0	16.97736
500	124.0	16.57632	500	143.0	19.11624
750	170.0	22.7256	750	177.0	23.66136
1,000	208.0	27.80544	1,000	208.0	27.80544
1,250	239.0	31.94952	1,250	239.0	31.94952
1,500	269.0	35.95992	1,500	269.0	35.95992
1,750	297.0	39.70296	1,750	297.0	39.70296
2,000	325.0	43.446	2,000	325.0	43.446
2,500	380.0	50.7984	2,500	380.0	50.7984
3,000	433.0	57.88344	3,000	433.0	57.88344
4,000	525.0	70.182	4,000	525.0	70.182
5,000	593.0	79.27224	5,000	593.0	79.27224

**TABLE E103.3(4)
LOSS OF PRESSURE THROUGH TAPS AND TEES IN POUNDS PER SQUARE INCH (psi)**

GALLONS PER MINUTE	SIZE OF TAP OR TEE (inches)						
	5/8	3/4	1	1 1/4	1 1/2	2	3
10	1.35	0.64	0.18	0.08	—	—	—
20	5.38	2.54	0.77	0.31	0.14	—	—
30	12.10	5.72	1.62	0.69	0.33	0.10	—
40	—	10.20	3.07	1.23	0.58	0.18	—
50	—	15.90	4.49	1.92	0.91	0.28	—
60	—	—	6.46	2.76	1.31	0.40	—
70	—	—	8.79	3.76	1.78	0.55	0.10
80	—	—	11.50	4.90	2.32	0.72	0.13
90	—	—	14.50	6.21	2.94	0.91	0.16
100	—	—	17.94	7.67	3.63	1.12	0.21
120	—	—	25.80	11.00	5.23	1.61	0.30
140	—	—	35.20	15.00	7.12	2.20	0.41
150	—	—	—	17.20	8.16	2.52	0.47
160	—	—	—	19.60	9.30	2.92	0.54
180	—	—	—	24.80	11.80	3.62	0.68
200	—	—	—	30.70	14.50	4.48	0.84
225	—	—	—	38.80	18.40	5.60	1.06
250	—	—	—	47.90	22.70	7.00	1.31
275	—	—	—	—	27.40	7.70	1.59
300	—	—	—	—	32.60	10.10	1.88

For SI: 1 inch = 25.4 mm, 1 pound per square inch = 6.895 kpa, 1 gallon per minute = 3.785 L/m.