

Irrigation Systems and Second Water Meters

BUILDING DIVISION



LAWN IRRIGATION SYSTEMS

Many homeowners wish to install lawn sprinklers or lawn irrigation systems to water their grass. The city offers a “second meter” or a Sewer Deduct Meter which can be purchased at the Utilities Division. Please call the Utilities Division (440) 490-2049 for meter cost. The meter will only monitor the water usage for the irrigation system and outside faucets without the sewer charges that are standard on your utility bill. All applicants making lawn irrigation system connections to the city water system for supplying water to a lawn irrigation system shall comply with the following provisions:

- A permit is required from the Building Division for both the second meter (if to be installed) and the lawn irrigation system. No lawn irrigation system permit will be issued for a new home until final grade has been approved by the Engineering Division.
- The city water supply to the lawn irrigation system shall be protected by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker or a reduced pressure principal backflow preventer.
- A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the city water supply shall be protected against backflow by a reduced pressure principal backflow preventer.
- If the irrigation system is to be installed on the tree lawn or an easement, the sprinkler system will NOT be repaired or replaced by the City of North Ridgeville should the City have to service the easement or tree lawn area.

TESTING AND INSPECTIONS

- A plumbing inspection for the water meter is required, once the piping is ready, before the meter can be installed and a final inspection is required for the irrigation system.
- Backflow prevention assemblies shall be tested at the time of installation, immediately after repairs or relocation and annually, by a certified backflow preventer technician. A backflow test report is required to be provided to the Engineering Division before or at the final inspection and every year by June 15. Failure to provide the test report at inspection will result in a FAILED inspection.

GENERAL INFORMATION AND ACKNOWLEDGEMENT

Construction site address

Permanent parcel number

Contractor

Contractor address

Contractor phone

Contractor email

Property owner

Property owner address

Property owner phone

Property owner email

Signing below confirms your acknowledgement of the lawn irrigation installation, inspection and maintenance procedures.

Property Owner's Signature: _____ Date _____

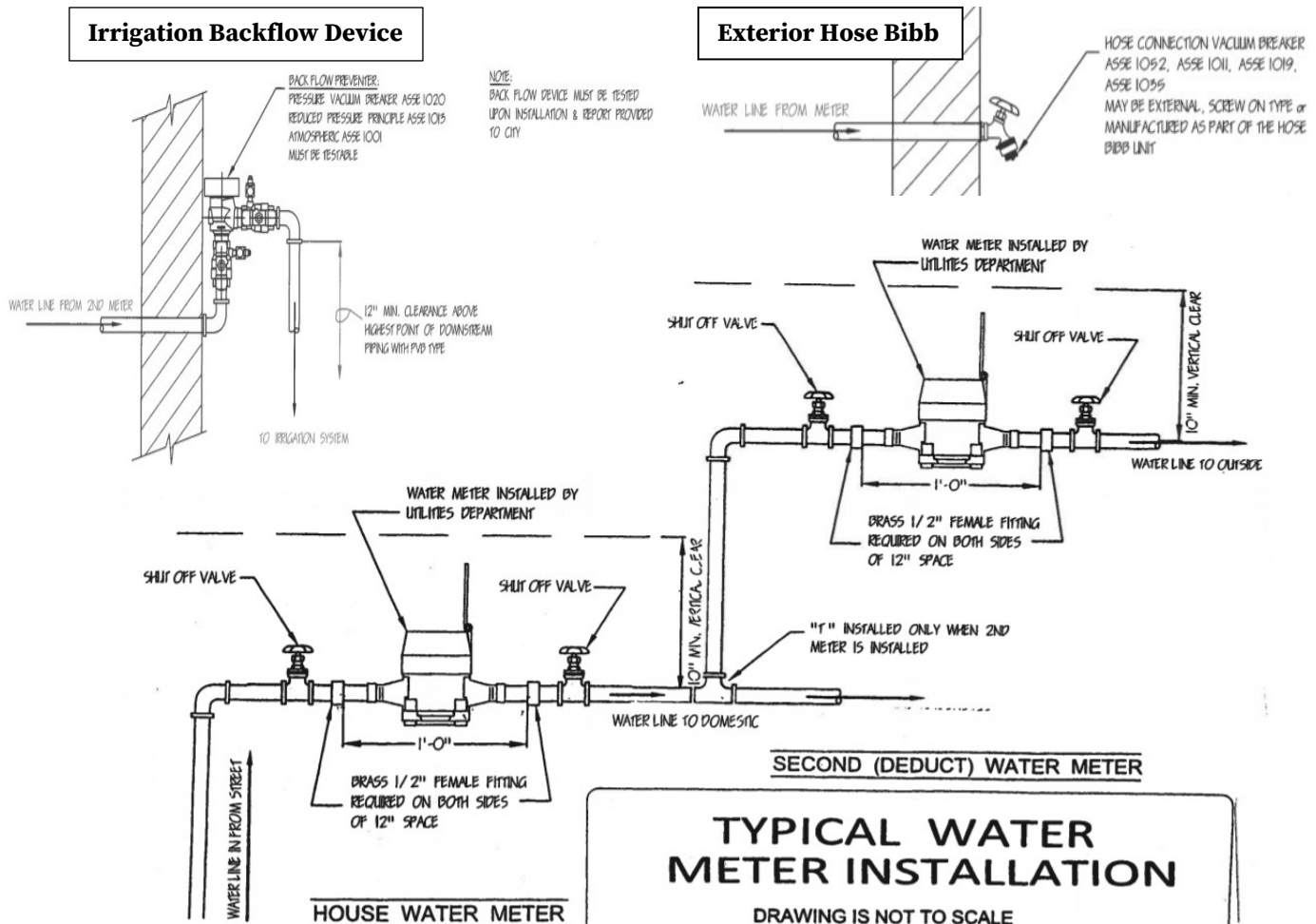
Contractor's Signature: _____ Date _____

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RULES FOR THE INSTALLATION OF WATER METERS

1. All meters must be installed horizontally.
2. A minimum clearance of 4 inches must be present between center-line of meter to any wall or object.
3. The second meter MUST be installed downstream of the first meter. Please refer to "T" connection in drawing.
4. All pipe fittings used for the meter set must be of an approved type. No black pipe or fittings that may rust/corrode.
5. Meters must be properly supported with appropriate clamps or supports to prevent accidental breakage.
6. A jumper or spanner must be fit into the space for the meter. IT IS CRITICAL THAT THE SPACE FOR THE METER IS EXACTLY 12 INCHES. The jumper or spanner will be removed when the meter is installed and is necessary to check for leaks up and downstream of the meter installation.
7. The incoming water line must have a turn off on each side of the meter. See drawing.
8. A reduction to 2½ inch female brass fittings must be on either side of the meter set as shown.
9. If there are leaks in the assembly, the meter will not be installed.
10. Shark bite fittings that allow for rotation of the meter are unacceptable.
11. ***All water lines attached to the second meter must supply exterior uses only.



Residential Application for Plan Approval

BUILDING DIVISION



GENERAL INFORMATION

Construction site address

Permanent parcel number

Contractor

Contractor address

Contractor phone

Contractor email

Property owner

Property owner address

Property owner phone

Property owner email

NEW CONSTRUCTION

DWELLING TYPE: ☐ Single Family ☐ Two Family Energy Code Compliance Method: _____

SQUARE FOOTAGE: Fin. Basement: _____ 1st Fl: _____
2nd Fl: _____ Total: _____

GARAGE: ☐ Attached Garage ☐ Detached Garage ☐ Storage Building
Size: Width: _____ Depth: _____ Sq ft: _____

SUBDIVISION: Sublot #: _____ Subdivision Name: _____
Zoning Dist.: _____ Water Permit #: _____

ADDITIONS & ALTERATIONS

Year Dwelling Built: _____ Additional Sq Ft: _____

☐ Dwelling Addition ☐ Garage Addition ☐ Storage Building Addition
☐ Kitchen Remodel ☐ Basement Remodel ☐ Other: _____

GENERAL PERMITS

☐ Re-Siding ☐ Re-Roofing ☐ Fire Damage Repair ☐ 2nd Water Meter
☐ Demolition ☐ Above Ground Pool ☐ In Ground Pool ☐ Lawn Sprinkler
☐ Gazebo ☐ Other: _____
☐ Fence Style: _____ Height: _____ Length: _____
☐ Deck Size: _____ Sq Ft: _____

SUBCONTRACTORS

All contractors performing work related to this permit must be registered and approved by the Building Division for the current year.

SUBTRADE

CONTRACTOR NAME

Masonry _____
Carpentry _____
Plumbing _____
Electrical _____
HVAC _____
Drywall _____
Excavator _____
Pool Erector _____
Landscaper _____
Other _____

PERMIT FEES

To be calculated by Building Div.

PERMIT: _____

STATE 1%: _____

ADMIN: _____

TOTAL: _____

Residential Application for Plan Approval

BUILDING DIVISION



HVAC

| | | |
|--|---|---|
| Furnace: <input type="checkbox"/> New <input type="checkbox"/> Replacement Furnace Capacity: _____ BTU's Furnace Fuel Type: <input type="checkbox"/> Natural Gas <input type="checkbox"/> L.P. Gas <input type="checkbox"/> Electric <input type="checkbox"/> Other: _____ Ductwork Type: _____ | A/C: <input type="checkbox"/> New <input type="checkbox"/> Replacement A/C Capacity: _____ Tons Condensing Unit Location: <input type="checkbox"/> Rear yard <input type="checkbox"/> Left side yard <input type="checkbox"/> Right side yard | Fireplace: <input type="checkbox"/> New <input type="checkbox"/> Replacement Fuel Type: <input type="checkbox"/> Natural Gas <input type="checkbox"/> L.P. Gas <input type="checkbox"/> Electric <input type="checkbox"/> Other: _____ |
|--|---|---|

Gas Meter Location: ☐ Front yard ☐ Rear yard ☐ Left side yard ☐ Right side yard

PLUMBING

☐ New ☐ Alteration ☐ Replacement ☐ Service Line

Water Distribution System: ☐ Copper ☐ Pex ☐ PVC / CPVC

Indicate fixture count below:

| | |
|---------------------------------|--|
| # of Sinks | |
| # of Toilets | |
| # of Tubs/Showers | |
| # of water connected appliances | |

Building Main Drain size: _____
 Building Water Service size: _____
 Water Heater Fuel Type: ☐ Natural Gas ☐ L.P. Gas
☐ Electric ☐ Other: _____
 Water Heater Capacity: _____ BTUs

ELECTRICAL

☐ New ☐ Alteration/Addition ☐ Service Change

Grounding Electrodes to be used: ☐ Ground Rod s ☐ CEE/UFER ☐ Water line Service Amps: _____

Indicate load wattages & amperages for each item applicable below:

First 10,000VA at 100% remainder at 40%. Small appliance and laundry circuit loads 1500VA. Stationary appliance minimum 5000VA.

| Description of Equipment | # of Units | Equipment Loads | Description of Equipment | # of Units | Equipment Loads |
|---|------------|-----------------|--------------------------|------------|-----------------|
| (Ex. Oven, Clothes Dryer, Furnace, AC etc...) | (Ex.1) | (Ex. 12000VA) | | | |
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| | | | | | |

Total Load Calculation: wattage divided by 240 =

Additional information may be required for final approval of electrical systems.

The following information must be clearly identified on the construction drawings: furnace location, water heater location, vent termination for dryer, furnace & water heater, water meter location.

Est. Cost of Construction: _____ Sidewalk Ordinance Received Date: _____

Property Owner's Signature: _____ Date _____

Applicant's Signature: _____ Date _____

APPLICATION AUTHORIZATION

Building Division Approval

Date