



# City of North Ridgeville

## Building Department

7307 Avon Belden Rd, North Ridgeville, OH 44039

Phone: (440) 353-0822 Fax: (440) 353-0823



## 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 Department. (Please call the Utilities Department [\(440\) 353-0841](tel:4403530841) for meter cost.). The meter will monitor only the water usage for the irrigation system and outside faucets without the sewer charges that are standard on the Utility billing (see information on attached second water meter page).

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. 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 principle 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 principle backflow preventer. Backflow preventer assemblies shall be tested at the time of installation, immediately after repairs or relocation and annually, by a certified backflow preventer technician.

There is a permit required from the Building Department for both the second meter (if to be installed) and the lawn irrigation system. Please be advised that no lawn irrigation system permit will be issued until final grade has been approved by the City of North Ridgeville Engineering department. 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. A backflow test report is required to be provided to the City Engineering Department before or at the final inspection; and every year by June 15<sup>th</sup>.



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### RESIDENTIAL PLAN APPROVAL APPLICATION

CONSTRUCTION SITE ADDRESS: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTRACTOR ADDRESS: \_\_\_\_\_  
 CONTACT PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_  
 PROPERTY OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROPERTY OWNER ADDRESS: \_\_\_\_\_  
 CONTACT PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

*(CHECK ALL ACTIVITIES PERTAINING TO THIS APPLICATION)*

**NEW CONSTRUCTION:**       Single Family       Multi-Family # of Units \_\_\_\_\_  
 Square Footage: Finished Basement: \_\_\_\_\_ 1st Fl.: \_\_\_\_\_ 2nd Fl.: \_\_\_\_\_ Total: \_\_\_\_\_  
 Garage:  Attached  Detached  Storage Building Size: W \_\_\_\_\_ x D \_\_\_\_\_ Square Feet: \_\_\_\_\_  
 Sub Lot # : \_\_\_\_\_ Permanent Parcel # : \_\_\_\_\_ Water Permit #: \_\_\_\_\_  
 Zoning District : \_\_\_\_\_ Subdivision: \_\_\_\_\_ Model / Plan Name: \_\_\_\_\_  
**YARD REQUIREMENTS:** Width at R.O.W. : \_\_\_\_\_ Flood Plain Zone: \_\_\_\_\_

**ADDITION / ALTERATION:** Year Dwelling Built: \_\_\_\_\_ Addition/Alteration Square Footage: \_\_\_\_\_  
 Dwelling Addition  Garage Addition  Storage Bldg. Addition  Kitchen Remodel  Basement Remodel

#### **GENERAL PERMITS:**

Re-Siding     Re-Roofing       Fire Damage Repair     2nd water meter  
 Demo       Above-Ground Pool     In-Ground Pool       Lawn Sprinkler  
 Gazebo       Other : \_\_\_\_\_  
 Fence      Style: \_\_\_\_\_      Size: \_\_\_\_\_  
 Deck      Size: \_\_\_\_\_      Square Feet: \_\_\_\_\_

| <b>PERMIT FEES</b> |       |
|--------------------|-------|
| PERMIT:            | _____ |
| STATE 1%:          | _____ |
| ADMIN.:            | _____ |
| TOTAL:             | _____ |

#### **HVAC:**

Heat:  New  Replacement    A/C:  New  Replacement    Fireplace:  New  Replacement  
 Condensing Unit Location:     Rear yard       Left side yard       Right side yard  
 Furnace Capacity: \_\_\_\_\_ BTU's      Water Heater Capacity: \_\_\_\_\_ BTU's  
 Furnace Fuel Type:       Natural Gas     L.P. Gas     Electric     Other: \_\_\_\_\_  
 Water Heater Fuel Type:     Natural Gas     L.P. Gas     Electric     Other: \_\_\_\_\_  
 Air Conditioner Capacity: \_\_\_\_\_ Tons    Ductwork Type:  Sheet metal  Duct board  
 Gas Meter Location:     Front yard     Rear yard     Left side yard     Right side yard  
 Water Meter Location:     Front       Rear       Left side       Right side

***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 (if slab construction).***

Indicate Energy Code compliance method: \_\_\_\_\_



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**PLUMBING:**  New  Alteration  Service Line

*Indicate fixture count below:*

|                       |                               |                           |
|-----------------------|-------------------------------|---------------------------|
| Water Closet(s) _____ | Floor Drain(s) Bidet(s) _____ | Backflow Device(s) _____  |
| Lavatory(s) _____     | Sink(s) _____                 | Laundry Tub(s) _____      |
| Water Heater(s) _____ | Shower(s) _____               | Bath Tub(s) _____         |
| Dishwasher(s) _____   | Clothes Washer(s) _____       | Sump Pump(s) _____        |
| Hot Tub(s) _____      | Sewage Grinder(s) _____       | Garbage Disposal(s) _____ |
| Other(s) _____        |                               |                           |

Building Main Drain size: \_\_\_\_\_ inches. Building Water Service size: \_\_\_\_\_ inches.

Water Distribution System:  Copper  PVC / plastic

**ELECTRICAL:**  New  Alteration/Addition  Service Change  Service Entrance Service Amps:

*Indicate load wattages & amperages for each item applicable below:*

|                             |                            |                                |
|-----------------------------|----------------------------|--------------------------------|
| Range: _____ watts          | Cook top: _____ watts      | Oven: _____ watts              |
| Water Heater: _____ watts   | Clothes Dryer: _____ watts | Gas Clothes Dryer: _____ watts |
| Dishwasher: _____ watts     | Disposal: _____ watts      | Sump Pump: _____ watts         |
| Sewage Ejector: _____ watts | Water Pump: _____ watts    | Other: _____ watts             |

Air Conditioner: \_\_\_\_\_ volts \_\_\_\_\_ amps

Furnace: \_\_\_\_\_ volts \_\_\_\_\_ amps

Electric Space Heater: \_\_\_\_\_ volts \_\_\_\_\_ amps

Heat Pump: \_\_\_\_\_ volts \_\_\_\_\_ amps

| TRADE           | NAME OF CONTRACTOR | REGISTERED |
|-----------------|--------------------|------------|
| Masonry:        | _____              | Yes / No   |
| Carpentry:      | _____              | Yes / No   |
| Plumbing:       | _____              | Yes / No   |
| Electrical:     | _____              | Yes / No   |
| HVAC:           | _____              | Yes / No   |
| Decorating:     | _____              | Yes / No   |
| Floor Covering: | _____              | Yes / No   |
| Drywall:        | _____              | Yes / No   |
| Excavator:      | _____              | Yes / No   |
| Pool Erector:   | _____              | Yes / No   |
| Landscaper:     | _____              | Yes / No   |
| Other:          | _____              | Yes / No   |

(Circle one)

**NOTE:** All contractors submitted regarding this permit, must be registered and approved by the Building Dept. for the current year.

Cost of Construction: \$ \_\_\_\_\_ Applicant's Signature: \_\_\_\_\_

Property Owner's Signature: \_\_\_\_\_

Sidewalk Ordinance received date: \_\_\_\_\_ Applicant's Signature: \_\_\_\_\_

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



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### LAWN IRRIGATION PROCEDURE ACKNOWLEDGEMENT

CONSTRUCTION SITE ADDRESS: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_

CONTACT PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

PROPERTY OWNER: \_\_\_\_\_

PROPERTY OWNER ADDRESS: \_\_\_\_\_

CONTACT PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

1. Final Grade Approval is required on all new homes before an irrigation permit will be issued.
2. 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.
3. All lawn irrigation systems connected to the city water system shall have backflow devices tested and the test report shall be provided to inspector at the time of inspection. Failure to provide the test report at inspection will result in FAILED inspection.
4. A yearly test shall be performed and test report shall be submitted to the City of North Ridgeville Engineering Department.
5. Homeowner and contractor must acknowledge these conditions by signing below
6. A second "deduct" water meter, which would eliminate sanitary sewer charges for outdoor water usage, may be purchased through the City of North Ridgeville Utilities Department. (Permit from Building Department required)

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

**Homeowner Signature:** \_\_\_\_\_ **date:** \_\_\_\_\_

**Contractor Signature date:** \_\_\_\_\_ **date:** \_\_\_\_\_



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## SECOND WATER METER (Deduct Meter)

### PROCEDURES:

1. A testable Backflow Prevention Assembly must be installed for Underground Lawn Irrigation Systems. Hose bibs require a Vacuum Breaker Backflow Prevention Assembly. The Building Department will conduct a Meter Set-up Inspection and Lawn Irrigation System Inspection; the backflow device on lawn sprinkler systems must be tested upon installation and report provided to the City Engineer or to the Inspector before final approval is given.
2. If desired all exterior hose bibs may be on the deduct meter. Plumbing must be changed/set-up so that all outside faucets are on the deduct meter line. This means after your first water meter, you would T-off or Y-off the main entrance line and install your second meter and backflow prevention device on the line that services your outside faucets or underground lawn irrigation system. Every house is a little different on plumbing set-up.
3. A permit is required for inspection of your changes and set-up for second meter.

The second meter is to be set-up the same as for the first meter only *after* the first meter on your line and connected to exterior faucets. (See the attached drawings) **Permit** should be obtained from the Building Department. See fees listed on Residential Building Permit Fees page (website or handout). After permit is issued and plumbing changes are made, the homeowner or plumber must call the Utilities Department (**353-0841**) for an appointment to have the water meter installed.

With the second (deduct) meter, residents are charged for water usage only on the second water meter and will receive a credit on their bill for sewer charges that are billed on the first meter.

**Example:** monthly usage on first meter is 1400 cubic feet (or 14 usage) and the monthly usage on the second meter is 500 cubic feet (or 5 usage).

The water usage would be: **Water (14 use)**  
**Sewer (14 use)**  
**Deduct Meter (5 use)**  
**Total after deduction (23 use)**

In effect, the customer would be billed a 14 usage for water and only a 9 usage for sewer since a 5 usage was on the second water meter that registers exterior water use.

The second water meters are for outside usage only, such as car washing, filling swimming pools, watering lawns and gardens, etc.

The cost of the second water meter can either be paid for at the Utilities Department or the charge for the meter can be billed on your next monthly utility statement.



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### **Rules for Water Meter & 2nd Meter Installations**

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 picture.
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 down stream 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 two 1/2 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.





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