



# Residential Building Permit Application – Foundation Drainage

Applications can be emailed to the permits department at [permits@cleveland.texas.gov](mailto:permits@cleveland.texas.gov)

**Application Type** (check all that apply)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> New Construction           | <input type="checkbox"/> Remodel/Addition | <input type="checkbox"/> Site Work Only |
| <input type="checkbox"/> Shell Building             | <input type="checkbox"/> Accessory Build  | <input type="checkbox"/> Foundation     |
| <input type="checkbox"/> <b>Foundation Drainage</b> | <input type="checkbox"/> Other _____      |   |

**Project Address:** \_\_\_\_\_ Sq Ft of Drainage System \_\_\_\_\_

Type of System: (select one)  Tiles  Gravel  Crushed Stone  Perforated Pipe

Discharge Details: (select one)  Storm Sewer  Sump Pit with Pump  Daylight Outlet

*\*If electricity is required (drains into sump pit and uses a sump pump to move water) an Electric Permit will be required.*

**Owner Name:** \_\_\_\_\_ **Owner Address:** \_\_\_\_\_

**Owner Phone #** \_\_\_\_\_ **Owner Email:** \_\_\_\_\_

**Applicant's Name** (if different from Owner) \_\_\_\_\_

**Contractor Information:** (Contractor's are required for all projects, unless the existing home is homesteaded)

**Company Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_

**Company Address:** \_\_\_\_\_ **Company Email:** \_\_\_\_\_

**Applicant/Contractor Name:** \_\_\_\_\_ **Cell Phone:** \_\_\_\_\_

**Scope of Work:** \_\_\_\_\_



\_\_\_\_\_  
*Applicant Signature*

\_\_\_\_\_  
*Date*

***\*Incomplete or modified applications will not be accepted***

**Office Use Only**

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

**Plan Review** \_\_\_ Y \_\_\_ N

**Permit** \_\_\_\_\_

**Permit Cost:** \_\_\_\_\_

**Payment Date:** \_\_\_\_\_

**City Employee:** \_\_\_\_\_

*Permit required to be posted on jobsite (IBC SEC, 105 PERMITS(A) 105.7)*



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### ***IRC 2015 – Section R405.1: Concrete or Masonry Foundation Drainage***

*Drains shall be provided around all concrete or masonry foundations that retain earth and enclose habitable or usable spaces located below grade.*

### **REQUIREMENTS ACCORDING TO IRC 2015**

#### **1. Drainage System Type:**

- It can be made of drainage tiles, gravel or crushed stone drains, perforated pipe, or other approved systems.
- These systems are commonly called French drains when using perforated pipe surrounded by gravel.

#### **2. Location:**

- Drainage must be installed at or below the area to be protected—usually at the bottom of the footing or slightly below.

#### **3. Discharge:**

- Drainage must be discharged by gravity or mechanical means into an approved drainage system such as:
  - A storm sewer
  - Sump pit with a pump
  - Daylight outlet (sloped to discharge outside)

#### **4. Gravel or Stone Specifications:**

- Must be washed gravel or crushed rock.
- Minimum size: ½ inch to ¾ inch diameter.
- Minimum depth: 6 inches above the top of the pipe.
- Gravel must be wrapped with approved filter fabric to prevent soil infiltration.

#### **5. Pipe Specifications (if used):**

- Must be perforated and at least 4 inches in diameter.
- Must be laid on a slope (typically 1% minimum) to allow gravity flow.
- Covered with at least 6 inches of gravel.

#### ***Example Installation (Compliant with IRC 2015):***

- 4" perforated pipe placed along the footing perimeter
- Covered with gravel to 6" above the pipe
- Filter fabric wraps the gravel
- Gravity-drains to sump pit or storm drain