



## Granite Quarry Planning & Inspections Department

143 N. Salisbury Avenue

Granite Quarry, NC 28146 - Telephone: (704) 279-5596

### Flood Development Permit Application

Please check all applicable boxes and complete the required documentation.

If completing by hand, please use black or blue ink.

**\* Please fill out all required fields**

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

#### Contact Information\*

Property Owner(s): \_\_\_\_\_

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

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

Applicant (if different than property owner): \_\_\_\_\_

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

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

#### Property Information\*

Parcel ID Number (PIN): \_\_\_\_\_ Acreage: \_\_\_\_\_

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

#### Proposal\*

Please select all applicable boxes:

##### Structures

- Residential  Non-residential  Accessory  
 New  Replacement  Addition  Alteration/Renovation  
 Deconstruction  Relocation

##### Waterway

- Alteration  Relocation  Improvement  Required buffer restoration/mitigation

##### Utilities (i.e. above ground and/or buried utility lines)

- New  Alteration  Relocation  Deconstruction

##### Streets (i.e. public/private, driveway, bridge, rail, pedestrian path, etc.)

- New  Alteration  Relocation  Deconstruction

##### Other

- Drainage improvement(s), including culvert work  Grading  Fill  Excavation

Total disturbed land area (in square feet): \_\_\_\_\_

##### Description of proposed work/activity:

## Existing Structures

If more than four (4) existing structures/buildings, please attach additional information.

Type/Use	In SFHA? (Y/N)	Existing floor area (in square feet)	Total floor area (in square feet) proposed	Value of structure	Structure being altered as part of this project? (Y/N)	Cost of construction

## FIRM Data

Map Parcel Number: \_\_\_\_\_ Suffix: \_\_\_\_\_

Map Panel Date: \_\_\_\_\_

Flood Zone (actual zone): \_\_\_\_\_ Map Index Date: \_\_\_\_\_

### Regulatory Floodway/Non-Encroachment Area Info (please select one):

- Project Within Floodway/Non-encroachment Area  
 Project Outside Floodway/Non-encroachment Area

NOTE: Per Section 18.5 of the Granite Quarry Development Ordinance (GQDO), applicants are required to attach engineering certification, and supporting data, demonstrating development activity will not result in an increase in flood levels (i.e. a no-rise certification) for projects located within floodways or non-encroachment areas.

Base Flood Elevation (BFE) for Property: \_\_\_\_\_

NOTE: Per Section 18.5 (B) of the GQDO, substantial improvement of any existing residential and non-residential structure (including manufactured homes) shall require the reference level, including basement, elevated no lower than four (4) feet above the regulatory flood protection elevation (RFPE), as defined in Article 18 of the GQDO. This includes all utilities (i.e. electric, HVAC ducts, heating/air conditioning/electrical equipment, etc.).

Per Section 18.4 (B) (1), proposed elevation, and method thereof, of all development within a special flood hazard area shall be based on the following datum:

- 1) Elevation in relation to NAVD 1988 of the proposed reference level (including basement) of all structures;
- 2) Elevation in relation to NAVD 1988 to which any non-residential structure in Zones A, AE, AH, AO, A99 will be floodproofed; and
- 3) Elevation in relation to NAVD 1988 to which any proposed utility systems will be elevated or floodproofed.

Does project involve the development of a garage?  Yes  No

If yes, will garage be used for any purpose other than parking vehicles, building access, or storage?  Yes  No

NOTE: If the garage area is going to be used for any purpose other than parking vehicles, building access, or storage then the garage shall be used in determining the lowest floor elevation in accordance with applicable regulation(s) as embodied within the GQDO.

Proposed Method of Elevating Pre-FIRM Structure: \_\_\_\_\_

Note: If foundation wall is used, demonstrate a minimum of two (2) openings. Required openings are to be 1 square inch per square feet of enclosed footprint area below identified BFE.

## Certification and Signatures

I, the undersigned, understand that the issuance of a Floodplain Development Permit in accordance with the provisions of Section 18.4 (B) of the GCDO is contingent upon the above/submitted information being correct and that the plans and supporting data have been or shall be provided as required. I also understand that prior to occupancy of the structure being permitted, an elevation and/or flood proofing certificate signed by a professional engineer or registered land surveyor must be on file with the Granite Quarry Planning Department indicating the "as built" elevations in relation to mean sea level (MSL).

I certify that, to the best of my knowledge, the information contained within this application package, and in the supporting documents, is a factual representation of the proposed development and includes all submittal information as required in Section 18.4 inclusive of the GCDO. I understand that no work of any kind shall commence until a Permit has been issued, that same may be revoked if any false or misleading statements are made herein and, if revoked, all work must cease until the Permit is re-issued.

By signing this application, I acknowledge and agree that the Granite Quarry Floodplain Administrator, or their designee, have a right, upon presentation of proper credentials, to enter the subject property at any reasonable hour for the purposes of inspection or other enforcement action.

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**Owner Signature(s)**

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**Applicant Signature** (if different from owner)

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**Date**

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**Date**

## APPLICATION SUBMITTAL REQUIREMENTS:

Per Section 18.4 (B) of the Granite Quarry Development Ordinance (GCDO) an application for a Flood Development Permit shall include the following (applicable information only):

- (a) A plot plan drawn to scale which shall include, but shall not be limited to, the following specific details of the proposed floodplain development:
  - i. the nature, location, dimensions, and elevations of the area of development/disturbance; existing and proposed structures, utility systems, grading/pavement areas, fill materials, storage areas, drainage facilities, and other development;
  - ii. the boundary of the Special Flood Hazard Area as delineated on the FIRM or other flood map as determined in Article 18.3, Section B, or a statement that the entire lot is within the Special Flood Hazard Area;
  - iii. flood zone(s) designation of the proposed development area as determined on the FIRM or other flood map as determined in Article 18.3, Section B;
  - iv. the boundary of the floodway(s) or non-encroachment area(s) as determined in Article 18.3, Section B;
  - v. the Base Flood Elevation (BFE) where provided as set forth in Article 18.3, Section B; Article 18.4, Section C; or Article 18.5, Section D;
  - vi. the old and new location of any watercourse that will be altered or relocated as a result of proposed development; and
  - vii. the certification of the plot plan by a registered land surveyor or professional engineer.
- (b) Proposed elevation, and method thereof, of all development within a Special Flood Hazard Area including but not limited to:
  - i. Elevation in relation to NAVD 1988 of the proposed reference level (including basement) of all structures;
  - ii. Elevation in relation to NAVD 1988 to which any non-residential structure in Zones A, AE, AH, AO, A99 will be floodproofed; and
  - iii. Elevation in relation to NAVD 1988 to which any proposed utility systems will be elevated or floodproofed.
- (c) If floodproofing, a Floodproofing Certificate (FEMA Form 086-0-34) with supporting data, an operational plan, and an inspection and maintenance plan that include, but are not limited to, installation, exercise, and maintenance of floodproofing measures.
- (d) A Foundation Plan, drawn to scale, which shall include details of the proposed foundation system to ensure all provisions of this Ordinance are met. These details include but are not limited to:
  - i. The proposed method of elevation, if applicable (i.e., fill, solid foundation perimeter wall, solid backfilled foundation, open foundation on columns/posts/piers/piles/shear walls); and
  - ii. Openings to facilitate automatic equalization of hydrostatic flood forces on walls in accordance with Article 18.5, Section B(4)(d) when solid foundation perimeter walls are used in Zones A, AE, AH, AO, A99.
- (e) Usage details of any enclosed areas below the lowest floor.

- (f) Plans and/or details for the protection of public utilities and facilities such as sewer, gas, electrical, and water systems to be located and constructed to minimize flood damage.
- (g) Certification that all other Local, State and Federal permits required prior to floodplain development permit issuance have been received.
- (h) Documentation for placement of Recreational Vehicles and/or Temporary Structures, when applicable, to ensure that the provisions of Article 18.5, Section B, subsections (6) and (7) of this Ordinance are met.
- (i) A description of proposed watercourse alteration or relocation, when applicable, including an engineering report on the effects of the proposed project on the flood-carrying capacity of the watercourse and the effects to properties located both upstream and downstream; and a map (if not shown on plot plan) showing the location of the proposed watercourse alteration or relocation.

## **CERTIFICATE REQUIREMENTS:**

### **Elevation Certificates:**

- A. An Elevation Certificate (FEMA Form 086-0-33) is required prior to the actual start of any new construction (presuming permit issuance). It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the elevation of the reference level, in relation to NAVD 1988. The Floodplain Administrator shall review the certificate data submitted. Deficiencies detected by such review shall be corrected by the permit holder prior to the beginning of construction. Failure to submit the certification or failure to make required corrections shall be cause to deny a floodplain development permit.
- B. An Elevation Certificate (FEMA Form 086-0-33) is required after the reference level is established. Within seven (7) calendar days of establishment of the reference level elevation, it shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the elevation of the reference level, in relation to NAVD 1988. Any work done within the seven (7) day calendar period and prior to submission of the certification shall be at the permit holder's risk. The Floodplain Administrator shall review the certificate data submitted. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to further work being permitted to proceed. Failure to submit the certification or failure to make required corrections shall be cause to issue a stop-work order for the project.
- C. A final Finished Construction Elevation Certificate (FEMA Form 086-0-33) is required after construction is completed and prior to Certificate of Compliance/Occupancy issuance. It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of final as-built construction of the elevation of the reference level and all attendant utilities. The Floodplain Administrator shall review the certificate data submitted. Deficiencies detected by such review shall be corrected by the permit holder immediately and prior to Certificate of Compliance/Occupancy issuance. In some instances, another certification may be required to certify corrected as-built construction. Failure to submit the certification or failure to make required corrections shall be cause to withhold the issuance of a Certificate of Compliance/Occupancy. The Finished Construction Elevation Certificate certifier shall provide at least 2 photographs showing the front and rear of the building taken within 90 days from the date of certification.

The photographs must be taken with views confirming the building description and diagram number provided in Section A. To the extent possible, these photographs should show the entire building including foundation. If the building has split-level or multi-level areas, provide at least 2 additional photographs showing side views of the building. In addition, when applicable, provide a photograph of the foundation showing a representative example of the flood openings or vents. All photographs must be in color and measure at least 3" × 3". Digital photographs are acceptable.

**Floodproofing:**

- A. If non-residential floodproofing is used to meet the Regulatory Flood Protection Elevation requirements, a Floodproofing Certificate (FEMA Form 086-0-34), with supporting data, an operational plan, and an inspection and maintenance plan are required prior to the actual start of any new construction. It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the floodproofed design elevation of the reference level and all attendant utilities, in relation to NAVD 1988. Floodproofing certification shall be prepared by or under the direct supervision of a professional engineer or architect and certified by same. The Floodplain Administrator shall review the certificate data, the operational plan, and the inspection and maintenance plan. Deficiencies detected by such review shall be corrected by the applicant prior to permit approval. Failure to submit the certification or failure to make required corrections shall be cause to deny a Floodplain Development Permit. Failure to construct in accordance with the certified design shall be cause to withhold the issuance of a Certificate of Compliance/Occupancy.
- B. A final Finished Construction Floodproofing Certificate (FEMA Form 086-0-34), with supporting data, an operational plan, and an inspection and maintenance plan are required prior to the issuance of a Certificate of Compliance/Occupancy. It shall be the duty of the permit holder to submit to the Floodplain Administrator a certification of the floodproofed design elevation of the reference level and all attendant utilities, in relation to NAVD 1988. Floodproofing certificate shall be prepared by or under the direct supervision of a professional engineer or architect and certified by same. The Floodplain Administrator shall review the certificate data, the operational plan, and the inspection and maintenance plan. Deficiencies detected by such review shall be corrected by the applicant prior to Certificate of Occupancy. Failure to submit the certification or failure to make required corrections shall be cause to deny a Floodplain Development Permit. Failure to construct in accordance with the certified design shall be cause to deny a Certificate of Compliance/Occupancy.