

# BERKELEY TOWNSHIP



## *FLOODPLAIN DEVELOPMENT PERMIT APPLICATION FORM*

SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY

## DEVELOPMENT

Development shall mean any man-made change to improved or unimproved real estate including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials located within the area of Special Flood Hazard.

## DEVELOPMENT PERMIT

Application for a Development Permit is required within designated Special Flood Hazard Zones pursuant to Chapter 29 Flood Damage Prevention of the Township of Berkeley ordinances. Application for a development permit shall be made only on the forms provided by the Flood Mitigation Officer and may include, but not limited to: plans in duplicate drawings to scale showing the nature, location dimensions and elevations of the area in question, as well as existing or proposed structures, fill, grading, paving, excavation or drilling operations or storage of equipment or materials and the location of the foregoing:

## FREEBOARD

Freeboard shall mean a factor of safety usually expressed in feet above the base flood elevation. Freeboard tends to compensate for many unknown factors that could contribute to flood heights greater than the base flood elevation. Berkeley Township has adopted a one (1) foot freeboard.

## DESIGN FLOOD ELEVATION

Design flood elevation (DFE) refers to the locally adopted regulatory flood elevation. The DFE will always exceed the base flood elevation (BFE + 1 ft Freeboard = Design Flood Elevation).

## FOUNDATION INSPECTION REQUIREMENTS

For New Construction and Additions, a foundation location survey for a building located in a flood plain shall include a Flood Hazard Certificate as required by N.J.A.C. 5:23-2 18(b) 1.ii(2).

## FLOOD HAZARD AREA CHECKLIST INFORMATION REQUIRED

\_\_\_\_\_ A Submission of a grading Plan is required, in Compliance with Chapter 11.1.5 of the Code of the Township of Berkeley. Additionally the plans must show the following:

\_\_\_\_\_ All elevations on the plan shall be based on the "North American Vertical Datum of 1988"

\_\_\_\_\_ The exact size, shape, location and elevation of existing and proposed structures on any fill or regrading of property. The elevation shall be in relation to the mean sea level of the lowest habitable finished floor, including basements.

\_\_\_\_\_ Elevation in relation to mean sea level to which any structure has been flood proofed.

\_\_\_\_\_ Certification by a Professional Engineer or Architect that the flood proofing methods meet the flood proofing criteria of the Township Building Code and Chapter 29 Flood Damage Prevention for nonresidential structures.

\_\_\_\_\_ The description of the extent of any watercourse, which will be altered and/or relocate as the result of the proposed development must show exact location of the floodway and flood hazard area limits.

\_\_\_\_\_ The location, layout and elevation of existing and proposed parking areas, driveways, drainage, sewer and water facilities including connections, plantings, seedlings, fences, signs and other information shall be required for an elevation effecting the development upon flood control.

\_\_\_\_\_ If the structure is located in more than one flood zone, the location and identification of all flood zones must be indicated on the survey and the most restrictive base flood elevation will be used.

### PRIOR APPROVAL LIST

\_\_\_\_\_ ZONING OFFICIAL

\_\_\_\_\_ PLANNING BOARD

\_\_\_\_\_ BOARD OF ADJUSTMENTS

\_\_\_\_\_ HEALTH DEPARTMENT (SEPTIC SYSTEM)

\_\_\_\_\_ SEWER/UTILITY AUTHORITY (CONNECTION APPROVAL)

\_\_\_\_\_ MUNICIPAL ENGINEER (GRADING PLAN)

\_\_\_\_\_ WATERFRONT DEVELOPMENT/CAFRA

\_\_\_\_\_ FRESH WATER WETLANDS

\_\_\_\_\_ LETTER OF MAP AMENDMENT (LOMA)

\_\_\_\_\_ SOIL CONSERVATION

\_\_\_\_\_ ZANE LETTER (BULKHEADS)

## RESIDENTIAL BUILDING PLAN REQUIREMENTS

- Two (2) sets of floor plan showing the existing and proposed work (all rooms must be identified).
- Elevation view of the structure.
- Specify materials used for fire rating (must be flood-proof).
- Structural details including foundation, floor, wall, ceiling and roof assemblies.
- Soil report for load bearing values of soil on waterfront property and properties EAST of Route 9.
- Anchoring details of foundation, floor, walls and roof assembly. Building must be designed to resist all loads, including flood, wind and uplift, during flooding.
- Location of all utilities (boilers, furnaces, air-conditioning, water heaters, pumps, duct work, etc.). All utilities must be above the DFE. Sunken tubs are prohibited below the DFE.
- All outdoor air-conditioning units, oil or propane tanks must be elevated and anchored above the DFE (see TB 1).
- The enclosed area below the DFE may only be used for storage, parking, access to the home or non-livable space.
- (All buildings in the food hazard area). The finished ground level of an under floor space such as a crawl space must be equal to or higher than the outside finished ground level.
- All building material used below the DFE must be of flood resistant material (TB 2).
- Indicate the type of material used for foundation, floor framing, insulation, walls and floor finishes.
- Structures in VE Zone and Coastal A Zone must be designed and certified by a licensed Professional Engineer or Architect including breakaway walls.
- Decks in a VE Zone and Coastal A Zone may not be lower than the lowest horizontal member of the main structure (if attached to the structure).
- Flood vents shall be provided for enclosed areas below the DFE with the exception of breakaway walls. Flood vents shall be provided at a minimum of 1 per every 200 sf of enclosed area. Each enclosed area shall have a minimum of 2 flood vents. Flood vents to be installed no more than 12" above grade.
- Electrical panel should provide a landing with stairs where required by the utility company.

## ESTIMATED COST OF CONSTRUCTION

To determine estimated cost of construction the Applicant shall submit to the Flood Mitigation Officer:

1. An estimate prepared, signed and sealed by the Applicant's architect or engineer.
2. An estimating firm or contractor's estimate – signed and sealed by an engineer;
3. A bona fide contractors bid shall be submitted.

The Flood Mitigation Officer shall have the final decision regarding the estimated cost.

APPLICATION # \_\_\_\_\_ APPLICATION DATE \_\_\_\_\_

**FLOODPLAIN DEVELOPMENT PERMITS APPLICATION**  
*(Form to be filled out in duplicate)*

**SECTION 1: GENERAL PROVISIONS (Applicant to read and sign)**

1. No work of any kind may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until a permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. Work must commence within six (6) months of issuance or permit expires.
6. Applicant is hereby informed that other permits may be required to fulfill local, state and federal regulatory requirements.
7. Applicant hereby gives consent to the Administrator or his/her representative to make reasonable inspections that are required to verify compliance.

THE APPLICANT CERTIFIES THAT "ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THE APPLICATION ARE TO THE BEST OF MY KNOWLEDGE TRUE AND ACCURATE".

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date

**SECTION 2: PROPOSED DEVELOPMENT (To be completed by Applicant)**

Applicants

Name/Address/Phone \_\_\_\_\_

Builders

Name/Address/Phone \_\_\_\_\_

Engineers

Name/Address/Phone \_\_\_\_\_

Project Location: To avoid delay processing the Application, please provide information to easily identify the project location. Provide the street address, lot and block number or legal description (attached coy of the survey if available).

\_\_\_\_\_  
Address

\_\_\_\_\_  
Block

\_\_\_\_\_  
Lot

DESCRIPTION OF WORK (check all applicable boxes)

A. ACTIVITY

STRUCTURE TYPE

New Structure

Addition

Alterations

Relocation

Demolition

Replacement

Elevated Structure

Substantial Improvement

Accessory Structure

Residential (1-4 Family)

Residential (More than 4 family)

Non-Residential (Flood proofing)  Y/N

Combined Use Residential/Commercial)

Manufactured (Mobile) home (in

(In Manufactured/Mobile Home Park)  Y/N

Bulkhead

In ground pool

ESTIMATED COST OF PROJECT

\$ \_\_\_\_\_

B. OTHER DEVELOPMENT ACTIVITIES

Clearing     Fill     Mining     Drilling     Grading

Excavation (except for structural development checked above)

Watercourse Alterations (including dredging/channel modifications)

Drainage Improvements (including culverts)

Road, Street or Bridge Construction

Subdivision (New or Expansion)

Individual Water or Sewer System

Other \_\_\_\_\_

AFTER COMPLETING SECTION 2, APPLICANT SHOULD SUBMIT FORMS TO BERKELEY TOWNSHIP CONSTRUCTION DEPARTMENT FOR REVIEW.

**SECTION 3: FLOODPLAIN DETERMINATION (TO BE COMPLETED BY FLOOD MITIGATION OFFICER)**

The proposed development is located on FIRM Panel # \_\_\_\_\_ Dated \_\_\_\_\_

The proposed development:

\_\_\_ Is NOT located in a Special Flood Hazard Area - NO FLOODPLAIN DEVELOPMENT

\_\_\_ Is partially located in SFHA, but building is not.

\_\_\_ Is located in SFHA. FIRM ZONE designation is \_\_\_\_\_  
"100-Year" flood elevation at the site \_\_\_\_\_ ft. NGVD (MSL)

\_\_\_ Is located in the floodway. FBFM Panel # \_\_\_\_\_ Dated \_\_\_\_\_  
(If different from FIRM panel and date)

\_\_\_\_\_  
Signed

APPEALS:

APPEALS TO THE BOARD OF APPEALS \_\_\_\_\_ YES \_\_\_\_\_ NO

HEARING DATE \_\_\_\_\_

APPEALS BOARD DECISION-APPROVED \_\_\_\_\_ YES \_\_\_\_\_ NO

REASONS AND CONDITIONS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SECTION 4: Forms which may be required by the Flood Mitigation Officer**

The following additional document may be required prior to the issuance of a Certificate of occupancy:

1. A V Zone and Coastal A Zone require a V Zone Certificate provided by a Professional Engineer.
2. A Breakaway Wall Certificate provided by a Professional Engineer is required where the floor below the finished floor is enclosed.
3. Prior to the issuance of a C.O., the Applicant shall submit a completed Nonconversion Agreement to the Flood Mitigation Officer and copy to the Tax Office.

**SECTION 5: AS-BUILT ELEVATIONS (to be submitted by Applicant before Certificate of Compliance is issued)**

The following information must be provided for structures that are part of this Application. The section must be completed by a professional engineer or licensed land surveyor (or they may attached a certification to the Application).  
COMPLETE 1 & 2

1. Actual (AS-BUILT) Elevation of the top of the lowest floor, including basement (In Coastal High Hazard Areas), bottom of lowest horizontal structural member of the lowest floor, (excluding pilings and columns) is: \_\_\_\_\_ft.
2. Actual (AS-BUILT) Elevation of flood proofing protection is \_\_\_\_\_ft. NGVD (MSL)

**SECTION 6: AS-BUILT INSPECTION ELEVATION**

The Flood Mitigation Officer will complete this section as applicable based on inspection of the project by the Building Subcode Official/Inspector to ensure compliance with Berkeley Township's Chapter 29 Flood Damage Protection.

INSPECTIONS:

DATE \_\_\_\_\_ BY \_\_\_\_\_ DEFICIENCIES \_\_\_\_\_ YES \_\_\_\_\_ NO



DATE \_\_\_\_\_ BY \_\_\_\_\_ DEFICIENCIES \_\_\_\_\_ YES \_\_\_\_\_ NO  
DATE \_\_\_\_\_ BY \_\_\_\_\_ DEFICIENCIES \_\_\_\_\_ YES \_\_\_\_\_ NO

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**SECTION 7: CERTIFICATE OF COMPLIANCE**

CERTIFICATE OF COMPLIANCE ISSUED: \_\_\_\_\_  
By \_\_\_\_\_ Date \_\_\_\_\_