ARLINGTON COUNTY CODE

Chapter 48

FLOODPLAIN MANAGEMENT

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ARTICLE I.

IN GENERAL

§ 48-1. Title.

This chapter shall be known as the "Floodplain Ordinance of Arlington County, Virginia."

(9-24-77; Ord. No. 91-43, 12-7-91)


This chapter is adopted pursuant to the authority granted to localities by Virginia Code Section 10.1-600 et seq.

The specific purposes of these provisions are:

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A. To regulate the subdivision and/or development of flood-prone areas in order to promote the general health, welfare, and safety of Arlington County;

B. To encourage the utilization of appropriate construction practices in order to prevent or minimize flood damage in the future;

C. To minimize danger to public health and safety by protecting public utilities and the natural drainage; and,

D. To reduce financial burdens imposed on Arlington County, its governmental units and its residents, by preventing the inadequate design and construction of development in areas subject to flooding.

§ 48-3. Regulations Required.

The floodplain management regulations in this section are hereby adopted with the intention of meeting the requirements of § 60.3D of the National Flood Insurance Program Regulations (44 Federal Register 31177, May 31, 1979).

§ 48-4. Conflict of Chapter.

In any case where a provision of this chapter is found to be in conflict with any other provision of the Arlington County Code existing on the effective date of this chapter, the provision which establishes the more stringent standard for the promotion and protection of the health and safety of the people shall prevail. In any case where a provision of this chapter is found to be in conflict with any other provision of the Arlington County Code existing on the effective date of this chapter which established a less stringent standard for the promotion and protection of the health and safety of the people, the provisions of this chapter shall be deemed to prevail; and such other provisions are hereby declared to be repealed to the extent that they may be found in conflict with this chapter.

§ 48-5. Application of Chapter.

A. Any development in the floodplain district shall adhere to the provisions of this chapter.

B. All structures for which a building permit has been issued and all site plans and subdivisions of land which have been approved before the effective date of this chapter and which have not expired may be completed without the necessity of complying with this chapter, but after completion, any building or structure and the land on which it is situated shall be subject to all the provisions of this chapter.

C. Any structure or use of a structure or premises which lawfully existed before the enactment of this chapter, but which is not in conformity with these provisions, may be continued subject to the following conditions:

1. Existing structures in the floodplain district shall not be expanded or enlarged unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practices that the proposed expansion would not result in any increase in the base flood elevation.

2. Any modification, alteration, repair, reconstruction, or improvement of any kind to a structure and/or use located in the floodplain district of less than fifty percent (50%) of its market value shall conform to the Virginia Uniform Statewide Building Code.

3. The modification, alteration, repair, reconstruction, or improvement of any kind to a structure and/or use, regardless of its location in the floodplain district to an extent or amount of fifty percent (50%) or greater or more of its market value shall be undertaken only in full compliance with this ordinance and
shall require the entire structure to conform to Virginia Uniform Statewide Building Code.

(9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

ARTICLE II.

DEFINITIONS*


§ 48-6. Base Flood.

“Base flood” means the flood having a one percent chance of being equaled or exceeded in any given year. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13.)


“Base flood elevation” means the elevation associated with the one percent annual water surface elevation as indicated in the Federal Emergency Management Agency (FEMA) Flood Insurance Study. For sites within the approximated floodplain, the base flood elevation shall be established as a point on the boundary of the approximated floodplain which is nearest to the site in question. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Basement” means any area of the building having its floor sub-grade (below ground level) on all sides. (Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Conditional Letter of Map Revision (CLOMR) means a formal review and comment as to whether a proposed flood protection project or other project complies with the minimum NFIP requirements for such projects with respect to delineation of special flood hazard areas. A CLOMR does not revise the effective Flood Insurance Rate Map or Flood Insurance Study. (Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-10. Development.

“Development” means any manmade change to improved or unimproved land, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of materials or equipment. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-11. Director of Environmental Services.

“Director of Environmental Services” means the Director of the Department of Environmental Services, Arlington County, Virginia. (Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-12. Elevated Building.

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“Elevated Building” means a non-basement building built to have the lowest floor elevated above the ground level by means of solid foundation perimeter walls, pilings, or columns (posts and piers).
(Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Elevation certificate” means a certificate which shall be on a form prescribed by FEMA which includes elevation information necessary to document compliance with the Floodplain Ordinance. This certificate is required for each new or substantially improved residential or commercial structure. It may also be used for new or substantially improved nonresidential structures in situations where elevation rather than floodproofing is used to meet the requirements of the Floodplain Ordinance. The certificate is maintained as a public record by the Department of Environmental Services. Blank forms are available from the Department of Environmental Services.
(Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Encroachment” means the advance or infringement of uses, plant growth, fill, excavation, buildings, permanent structures or development into a floodplain, which may impede or alter the flow capacity of a floodplain.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-15. Five Hundred-Year Flood.

“Five hundred-year flood” means a flood that has one (1) chance in five hundred (500) or a one-fifth percent (0.2%) chance of being equaled or exceeded in any year.
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-16. Flood Insurance Rate Map (FIRM).

“Flood Insurance Rate Map (FIRM)” means an official map of Arlington County, on which the Federal Emergency Management Agency has delineated both the special hazard areas and the risk premium zones applicable to Arlington County. A FIRM that has been made available digitally is called a Digital Flood Insurance Rate Map (DFIRM).
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-17. Flood Insurance Study (FIS).

“Flood Insurance Study (FIS)” means a report by FEMA that examines evaluates and determines flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudflow and/or flood-related erosion hazards.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-18. Flood or Flooding.

“Flood” or “flooding” means a general and temporary condition of partial or complete inundation of normally dry land areas from:

A. The overflow of inland or tidal waters; or

B. The unusual and rapid accumulation of runoff of surface water from any source; or,

C. Mudflows which are proximately caused by flooding as defined in paragraph (1)(b) of this definition and are akin to a river of liquid and flowing mud on the surfaces of normally dry land areas, as when earth is carried by a current of water and deposited along the path of the current; or

D. The collapse or subsidence of land along the shore of a lake or other body of water as erosion or

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undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature such as flash flood or an abnormal tidal surge, or by some similarly unusual and unforeseeable event which results in flooding as defined in paragraph 1 (a) of this definition (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Floodplain” means:

A. A relatively flat or low-land area adjoining a river, stream, or watercourse which is subject to partial or complete inundation; or

B. An area subject to the unusual and rapid accumulation of runoff of surface waters from any source. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-20. Floodplain Administrator.

“Floodplain Administrator” means the Director of the Department of Environmental Services, Arlington County, Virginia or his/her designee. (Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Floodproofing” means any combination of structural and nonstructural additions, changes, or adjustments to properties and structures which reduce or eliminate flood damage to lands, public and private utilities, structures, and contents of buildings. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Floodproofing certificate” means a certification on a form provided by FEMA which includes information necessary to document compliance with the floodproofing provisions of the Floodplain Ordinance. The certification is required for each new or substantially improved nonresidential structure in the floodplain district, except in cases where elevation rather than floodproofing is used to meet the requirements of the Floodplain Ordinance. This certificate is maintained as a public record by the Department of Environmental Services. (Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-23. Floodway.

“Floodway” means the designated area of the channel and adjacent land areas required to carry and discharge the base flood without cumulatively increasing the water surface elevation more than one foot. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Freeboard” means a factor of safety usually expressed in feet above a flood level for purposes of floodplain management. “Freeboard” tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, bridge openings, and the hydrological effect of urbanization in the watershed. When a freeboard is included in the height of a structure, the flood insurance premiums may be less expensive. (Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-25. Highest Adjacent Grade.

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“Highest Adjacent Grade” means the highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure. (Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Historic structure” means any structure that is:

A. Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;

B. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;

C. Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or

D. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either
   1. by an approved state program as determined by the Secretary of the Interior; or,
   2. directly by the Secretary of the Interior in states without approved programs. (Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Hydrologic and Hydraulic Engineering Analyses” means analyses performed by a licensed professional engineer, in accordance with standard engineering practices that are accepted by the Virginia Department of Conservation and Recreation and FEMA, used to determine the base flood, other frequency floods, flood elevations, floodway information and boundaries, and flood profiles. (Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Letter of Map Amendment (LOMA)” means an amendment based on technical data showing that a property was incorrectly included in a designated special flood hazard area. A LOMA amends the current effective Flood Insurance Rate Map and establishes that a Land as defined by meets and bounds or structure is not located in a special flood hazard area. (Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-29. Letter of Map Change (LOMC).

“Letter of Map Change (LOMC)” means an official FEMA determination, by letter, that amends or revises an effective Flood Insurance Rate Map or Flood Insurance Study. Letters of Map Change include: Letters of Map Amendment (LOMA), and Letters of Map Revision (LOMR). (Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-30. Letter of Map Revision (LOMR).

“Letter of Map Revision (LOMR)” means a revision based on technical data that may show changes to flood zones, flood elevations, floodplain and floodway delineations, and planimetric features. A Letter of Map Revision Based on Fill (LOMR-F), is a determination that a structure or parcel of land has been elevated by fill above the base flood elevation and is, therefore, no longer exposed to flooding associated with the base flood. In

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order to qualify for this determination, the fill must have been permitted and placed in accordance with the community’s floodplain management regulations.  
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-31. Lowest Floor.

“Lowest Floor” means the lowest enclosed area (including basement). An unfinished or flood-resistant enclosure, usable solely for parking of vehicles, building access or storage in an area other than a basement area is not considered a building’s lowest floor; provided, that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of Federal Code 44CFR §60.3.  
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-32. Manufactured Home.

“Manufactured home” means a structure which is transportable in one (1) or more sections; which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For floodplain management purposes the term “manufactured home” also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than 180 consecutive days, but does not include a recreational vehicle.  
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-33. Mobile Home.

“Mobile home” means a transportable dwelling intended for permanent occupancy which is built on a permanent chassis and is constructed so it may be used without a permanent foundation, whether or not attached to a permanent foundation.  
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-34. New Construction.

“New construction” means structures for which "start of construction" as herein defined commenced on or after the effective date of this chapter. This term does not apply to any work on a structure existing before the effective date of this chapter.  
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-35. One Hundred-Year Flood.

“One hundred-year flood” means a flood that has one (1) chance in one hundred (100) or a one percent (1%) chance of being equaled or exceeded in any year.  
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Principally above ground” means fifty percent (50%) or more of the actual cash value of a structure, less land value, is above ground.  
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Recreational vehicle” means any self-propelled vehicle or vehicle without motive power designed for recreational camping, travel, or seasonal use and not for use as a mobile home which is built on a single chassis and contains four hundred (400) feet or less in surface area when measured at its largest horizontal projection.  
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

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“Repetitive Loss Structure” means a property for which two or more National Insurance Program losses of at least $1,000 each have been paid within any 10-year rolling period since 1978.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)


“Shallow Flooding Area” means a special flood hazard area with base flood depths from one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and indeterminate, and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-40. Special Flood Hazard Area (SFHA).

“Special Flood Hazard Area” means the land in the floodplain subject to a one (1%) percent or greater chance of being flooded in any given year.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-41. Start of Construction.

“Start of construction” means for other than new construction and substantial improvement, under the Coastal Barriers Resource Act (P.L. – 97-348), means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, substantial improvement or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of the construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-42. Structure.

“Structure” means, for floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank, that is principally above ground and affixed to a permanent site, as well as a manufactured home.
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-43. Substantial Damage.

“Substantial damage” means damage of any origin sustained by a structure where the cost of restoring the structure to its before damaged condition would equal or exceed fifty percent (50%) of the market value of the structure before the damage occurred.
(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-44. Substantial Improvement.

“Substantial improvement” means any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds fifty percent (50%) of the market value of the structure before the start of construction of the improvement. The term substantial improvement shall refer to structures which have incurred substantial damage regardless of the value or actual cost of the actual repair work performed. The term does not, however, include either:

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A. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions; or

B. Any alteration of a historic structure, provided that the alteration will not preclude the structure’s continued status as a historic structure.

(Ord. No. 91-43, 12-7-91)

C. Historic structures undergoing repair or rehabilitation that would constitute a substantial improvement as defined above, must comply with all ordinance requirements that do not preclude the structure’s continued designation as a historic structure. Documentation that a specific ordinance requirement will cause removal of the structure from the National Register of Historic Places or the State Inventory of Historic places must be obtained from the Secretary of the Interior or the State Historic Preservation Officer. Any exemption from ordinance requirements will be the minimum necessary to preserve the historic character and design of the structure.

(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-45. Violations.

“Violation” means the failure of a structure or other development to be fully compliant with the Arlington County’s floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in Article V Section 48.57A and B is presumed to be in violation until such time as that documentation is provided.

(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-46. Zone Designations.

A FIRM displays the zone designations for Arlington County according to areas of designated flood hazards. The zone designations are:

Zone A -- Areas of one hundred-year flood; base flood elevations and flood hazard factors not determined.

Zone AE -- Areas of one hundred-year flood; base flood elevations and flood hazard factors determined.

Zone AO -- Area of one hundred-year flood -- flood depths of 1 – 3 feet (usually sheet flow on sloping terrain); average flood depth determined.

Zone D -- Areas of undetermined, but possible, flood hazards.

Zone X -- Areas outside the SFHA and Zone D.

(Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

ARTICLE III.

FLOODPLAIN DISTRICT

§ 48-47. Establishment of the Floodplain District.

The floodplain district shall include all areas subject to inundation by the waters of the one hundred-year flood. The source of this delineation shall be the Flood Insurance Study (FIS) and the Flood Insurance Rate Map (FIRM) for Arlington County, Virginia, as prepared by the Federal Emergency Management Agency (FEMA), Federal Insurance Administration (FIA), Flood Insurance Rate Map (FIRM) 515520 0017, 0018, 0019, 0036, 0038, 0039, 0043, 0057, 0076, 0077, 0079, 0081 and 0083-0083, August 19, 2013, or the latest revision.

The boundaries of the SFHA Districts are established as shown on the FIRM which is declared to be a part
of this chapter and which shall be kept on file at the Arlington County offices.

A. The Floodway District is in an AE zone and is delineated, for the purpose of this chapter, using the criterion that certain areas within the floodplain must be capable of carrying the waters of the one percent annual chance of flood without increasing the water surface elevation of that flood more than (1) foot at any point. The following provisions shall apply within the Floodway District of an AE zone:

1. Within any floodway area, no encroachments, including fill, new construction, substantial improvements, or other development shall be permitted unless it has been demonstrated through hydrologic and hydraulic analysis performed in accordance with standard engineering practice that the proposed encroachment will not result in any increase in flood levels within the Arlington County during the occurrence of the base flood discharge. Hydrologic and hydraulic analyses shall be undertaken only by professional engineers or others of demonstrated qualifications, who shall certify that the technical methods used correctly reflect currently-accepted technical concepts. Studies, analyses, computations, etc., shall be submitted in sufficient detail to allow a thorough review by the Floodplain Administrator.

2. Development activities which increase the water surface elevation of the base flood may be allowed, provided that the applicant first applies—with Arlington County’s endorsement—for a Conditional Letter of Map Revision (CLOMR), and receives the approval of the Federal Emergency Management Agency.

B. The AE Zone on the FIRM accompanying the FIS shall be those areas for which one-percent annual chance flood elevations have been provided and the floodway has not been delineated. The following provisions shall apply within an AE zone:

1. Until a regulatory floodway is designated, no new construction, substantial improvements, or other development (including fill) shall be permitted within the areas of special flood hazard, designated as Zone AE on the FIRM, unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one (1) foot at any point within the Arlington County.

2. Development activities in Zone AE on Arlington County’s FIRM which increase the water surface elevation of the base flood by more than one (1) foot may be allowed, provided that the applicant first applies—with Arlington County’s endorsement—for a Conditional Letter of Map Revision, and receives the approval of the Federal Emergency Management Agency.

C. The A Zone on the FIRM accompanying the FIS shall be those areas for which no detailed flood profiles or elevations are provided, but the one percent annual chance floodplain boundary has been approximated. For these areas, the following provisions shall apply:

1. The Approximated Floodplain shall be that floodplain area for which no detailed flood profiles or elevations are provided, but where a one hundred (100)-year floodplain boundary has been approximated. Such areas are shown as Zone A on the maps accompanying the FIS. For these areas, the base flood elevations and floodway information from federal, state, and other acceptable sources shall be used, when available. Where the specific one percent (1%) annual chance flood elevation cannot be determined for this area using other sources of data, such as the U. S. Army Corps of Engineers Floodplain Information Reports, U. S. Geological Survey Flood-Prone Quadrangles, etc., then the applicant for the proposed use, development and/or activity shall determine this base flood elevation. For development proposed in the approximate floodplain the applicant must use technical methods that correctly reflect currently accepted non-detailed technical concepts, such as point on boundary, high water marks, or detailed methodologies hydrologic and hydraulic analyses. Studies, analyses, computations, etc., shall be submitted in sufficient detail to allow a thorough review by the Floodplain Administrator.

2. The Floodplain Administrator reserves the right to require a hydrologic and hydraulic analysis for any development. When such base flood elevation data is utilized, the lowest floor shall be elevated to or
above one foot above the base flood level. During the permitting process, the Floodplain Administrator shall obtain:

a. The elevation of the lowest floor (including the basement) of all new and substantially improved structures; and

b. if the structure has been flood-proofed in accordance with the requirements of this article, the elevation to which the structure has been flood-proofed.

c. Base flood elevation data shall be obtained from other sources or developed using detailed methodologies comparable to those contained in a FIS for subdivision proposals and other proposed development proposals (including manufactured home parks and subdivisions) that exceed fifty lots or five acres, whichever is the lesser.

D. The AO Zone on the FIRM accompanying the FIS shall be those areas of shallow flooding identified as AO on the FIRM. For these areas, the following provisions shall apply:

1. All new construction and substantial improvements of residential structures shall have the lowest floor, including basement, elevated to or above the flood depth specified on the FIRM, above the highest adjacent grade at least as high as the depth number specified in feet on the FIRM. If no flood depth number is specified, the lowest floor, including basement, shall be elevated no less than two (2) feet above the highest adjacent grade.

2. All new construction and substantial improvements of non-residential structures shall

   a. have the lowest floor, including basement, elevated to or above the flood depth specified on the FIRM, above the highest adjacent grade at least as high as the depth number specified in feet on the FIRM. If no flood depth number is specified, the lowest floor, including basement, shall be elevated at least two (2) feet above the highest adjacent grade; or

   b. together with attendant utility and sanitary facilities be completely flood-proofed to the specified flood level so that any space below that level is watertight with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy.

   c. Adequate drainage paths around structures on slopes shall be provided to guide floodwaters around and away from proposed structures.

(9-24-77; Ord. No. 82-10, 4-24-82; Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)


The floodplain district shall be comprised of two (2) subdistricts.

A. Studied floodplain: Those portions of land within the floodplain district subject to inundation by the one hundred-year flood, where study data and profiles are available.

B. Approximated floodplain: Those portions of land within the floodplain district subject to inundation by the one hundred-year flood, where a detailed study has not been performed but where a one-hundred year floodplain boundary has been approximated by the Flood Insurance Study, as shown on the Flood Insurance Rate Map (FIRM); this area is designated as Zone A.

(9-24-77; Ord. No. 82-10, 4-24-82; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-49. Revisions, Amendments, and Modifications.

Code Updated 7-2013
The delineation of the floodplain district may be revised, amended, and modified by Arlington County in compliance with the National Flood Insurance Program (NFIP) when:

A. There are changes in the boundary of the floodplain district through natural or other causes;

B. Changes in the boundary of the floodplain district are indicated by updated detailed hydrological and hydraulic studies; or

C. When the health, safety, and welfare of Arlington County would be promoted by a realignment of the boundary of the floodplain district.

All such changes shall be submitted to the Federal Insurance Administration (FIA) prior to amendments by the Arlington County Board in order that the Arlington County Board may have the benefit of any comments its officials may make.

(9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

ARTICLE IV.

FLOOD DAMAGE CONTROL REGULATIONS

§ 48-50. Establishment of Flood Damage Control Regulations.

In order to prevent excessive damage to buildings and structures due to conditions of flooding, the following restrictions shall apply to all new construction and substantial improvements to existing structures and other development occurring in the floodplain district:

A. No mobile homes or manufactured homes shall be permitted in the floodplain.

B. Recreational vehicles placed on sites within the floodplain shall be on the site for fewer than one hundred eighty (180) consecutive days, be fully licensed and ready for highway use, be on wheels or a jacking system, be attached to the site only by quick-disconnect type utilities and security devices, and have no permanently attached additions.

C. Any development or use of land not prohibited by this chapter shall be permitted provided that all such uses, activities and development shall be undertaken in strict compliance with the floodproofing and related provisions contained herein and in all other applicable codes, ordinances, and regulations. All such development shall be undertaken only upon the issuance of a building permit and a floodplain development permit which is to be submitted to the Department of Environmental Services of Arlington County, Virginia.

D. An elevation certificate for new construction or a floodproofing certificate for substantial improvement or commercial construction is to be completed by the applicant and submitted to the Department of Environmental Services of Arlington County, Virginia.

E. In the floodway area of the floodplain no encroachments, including fill, new construction, substantial improvements, or other development, shall be permitted unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in the one hundred-year flood elevation.

F. Within the approximated floodplain district, the applicant shall also delineate a floodway area, which will include base flood elevation data based on the requirement that all existing and future development not increase the one hundred-year flood elevation more than one (1) foot at any one (1) point. The engineering principle of equal reduction of conveyance shall be used to make the determination of increased flood heights. Within the floodway area delineated by the applicant, the provisions of § 48-50.E shall apply.

G. Whenever an applicant proposes to offset the effects of development in the floodplain district by construction of stream improvements, he shall submit an engineering study prepared by a duly registered...
professional engineer which fully evaluates the effects of such construction. All adjacent communities, the Virginia Department of Conservation and Recreation (Division of Dam Safety and Floodplain Management), and the Federal Insurance Administration (FIA) shall be notified by the applicant in writing of all such intended activities at least thirty (30) days prior to commencing work. In addition, the applicant shall confirm in writing to the Director of Environmental Services or his designee that the flood-carrying capacity within any such altered or relocated watercourse is maintained. All uses, activities, and development shall be undertaken in strict compliance with the floodproofing and related provisions contained herein, and in all other applicable codes, ordinances, and regulations.

H. Stream channel improvements and stormwater detention facilities are permitted in the floodplain district when in compliance with the rest of this ordinance.

I. General Standards

The following provisions shall apply to all permitted development:

1. New construction and substantial improvements shall be according to the Virginia Uniform Statewide Building Code and anchored to prevent flotation, collapse or lateral movement of the structure.

2. New construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.

3. New construction or substantial improvements shall be constructed by methods and practices that minimize flood damage.

4. Electrical, heating, ventilation, plumbing, air conditioning equipment and other service facilities, including duct work, shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.

5. New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.

6. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters.

7. On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding.

J. In addition to the General Standards above, in all Special Flood Hazard Areas, the additional provisions shall apply:

2. Prior to any proposed alteration or relocation of any channels or of any watercourse, stream, etc., within Arlington County a permit shall be obtained from the U. S. Corps of Engineers, the Virginia Department of Environmental Quality, and the Virginia Marine Resources Commission (a joint permit application is available from any of these organizations). Furthermore, in riverine areas, notification of the proposal shall be given by the applicant to all affected adjacent jurisdictions, the Department of Conservation and Recreation (Division of Dam Safety and Floodplain Management), other required agencies, and the Federal Emergency Management Agency.

3. The flood carrying capacity within an altered or relocated portion of any watercourse shall be maintained.

(9-24-77; Ord. No. 82-10, 4-24-82; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-51. Elevation and Construction Standards.

In all identified flood hazard areas where base flood elevations have been provided in the FIS or generated by a certified professional in accordance with Article III Section 48-47.D the following provisions shall apply:

Code Updated 7-2013
A. Residential Construction

New construction or substantial improvement of any residential structure in Zones AE, and A with detailed base flood elevations shall have the lowest floor, including basement, elevated to a minimum of one (1) foot above the base flood level.

B. Non-Residential Construction

New construction or substantial improvement of any commercial, industrial, or non-residential building (shall have the lowest floor, including basement, elevated to or above the base flood level a minimum of one (1) foot. Buildings located in all AE and AO zones may be flood-proofed in lieu of being elevated provided that all areas of the building components below the elevation corresponding to the BFE plus one (1) foot are water tight with walls substantially impermeable to the passage of water, and use structural components having the capability of resisting hydrostatic and hydrodynamic loads and the effect of buoyancy. A registered professional engineer or architect shall certify that the standards of this subsection are satisfied. Such certification, including the specific elevation (in relation to mean sea level) to which such structures are floodproofed, shall be maintained by Floodplain Administrator.

C. Space Below the Lowest Floor

In zones A, AE, and AO fully enclosed areas, of new construction or substantially improved structures, which are below the regulatory flood protection elevation shall:

1. not be designed or used for human habitation, but shall only be used for parking of vehicles, building access, or limited storage of maintenance equipment used in connection with the premises. Access to the enclosed area shall be the minimum necessary to allow for parking of vehicles (garage door) or limited storage of maintenance equipment (standard exterior door), or entry to the living area (stairway or elevator).
2. be constructed entirely of flood resistant materials below the regulatory flood protection elevation;
3. include measures to automatically equalize hydrostatic flood forces on walls by allowing for the entry and exit of floodwaters. To meet this requirement, the openings must either be certified by a professional engineer or architect or meet the following minimum design criteria:
   a. Provide a minimum of two (2) openings on different sides of each enclosed area subject to flooding.
   b. The total net area of all openings must be at least one (1) square inch for each square foot of enclosed area subject to flooding.
   c. If a building has more than one enclosed area, each area must have openings to allow floodwaters to automatically enter and exit.
   d. The bottom of all required openings shall be no higher than one (1) foot above the adjacent grade.
   e. Openings may be equipped with screens, louvers, or other opening coverings or devices, provided they permit the automatic flow of floodwaters in both directions.
   f. Foundation enclosures made of flexible skirting are not considered enclosures for regulatory purposes, and, therefore, do not require openings. Masonry or wood underpinning, regardless of structural status, is considered an enclosure and requires openings as outlined above.

D. Standards for Recreational Vehicles

Code Updated 7-2013
All recreational vehicles placed on sites must either

1. be on the site for fewer than 180 consecutive days, be fully licensed and ready for highway use (a recreational vehicle is ready for highway use if it is on its wheels or jacking system, is attached to the site only by quick disconnect type utilities and security devices and has no permanently attached additions); or

2. meet the requirements new construction in Section 48-50.I. and 48-51A.B and C. and be anchored to prevent flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. This standard shall be in addition to and consistent with applicable state anchoring requirements for resisting wind forces.

§ 48-52. Utility and System Requirements.

A. All new or replacement public and private utilities located in the floodplain district shall be elevated or floodproofed to a point at one (1) foot or more above the base flood elevation.

B. All new or replacement water supply systems and sanitary sewer systems within the floodplain district shall be elevated or floodproofed to a point at or above the base flood elevation to minimize or eliminate infiltration of flood waters into the systems and discharge from the systems into the flood waters.

C. All new or replacement on-site waste disposal systems shall be located so as to avoid impairment of them or contamination from them during or subsequent to flooding.

D. All storm drainage facilities shall be designed, as determined by the Director of Environmental Services, or his or her designee, to convey the flow of surface waters without damage to persons or property. The systems shall ensure drainage away from buildings and on-site waste disposal sites. The Director of Environmental Services, or his or her designee, may require a primary underground system to accommodate frequent floods and a secondary surface system to accommodate larger, less frequent floods. Drainage plans shall be consistent with local and regional drainage plans. The facilities shall be designed to prevent the discharge of excess runoff onto adjacent properties.

E. Streets and sidewalks shall be designed to minimize their potential for increasing and aggravating the levels of flood flow. Drainage openings shall be required to sufficiently discharge flood flows without unduly increasing flood heights.

§ 48-53. Floodproofing.

Whenever floodproofing is utilized within the scope of the Floodplain Ordinance, such floodproofing shall be done by approved methods. A duly registered professional engineer or architect shall certify that the floodproofing design is reasonably adequate to withstand the flood depths, pressures, velocities, impact, and uplift forces, and other factors associated with the one hundred-year flood, and shall cite the elevation to which the structure is floodproofed. Designs meeting the requirements of the ASCE 24, shall be deemed to comply with this requirement.

§ 48-54. Fill.

If fill is used to raise the finished surface of the lowest floor at or above the base flood elevation:

A. Fill shall consist of soil or rock materials only. Sanitary landfills shall not be permitted.
B. Fill material shall be compacted to provide the necessary stability and resistance to erosion, scouring or settling.

C. Fill slopes shall be no steeper than one (1) vertical on two (2) horizontal, unless substantiating data justifying steeper slopes are submitted to and approved by the Director of Environmental Services or his designee.

D. Fill shall be used only to the extent to which it does not adversely affect adjacent properties. (9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)


All buildings and structures shall be constructed and placed on the lot so as to offer the minimum obstruction to the flow of water and shall be designed to have a minimum effect upon the flow and height of flood waters.

Setbacks shall be required as follows:

A. All new construction of and substantial improvements to residential structures shall be set back fifteen (15) feet horizontally from the location of the base flood elevation boundary.

B. All new construction of and substantial improvements to nonresidential structures shall be set back fifteen (15) feet horizontally from the location of the base flood elevation boundary, unless such structures are floodproofed. (9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-56. Storage.

No new construction which stores materials that are buoyant, flammable, explosive, or in times of flooding could be injurious to human, animal, or plant life shall be stored below the base flood elevation. (9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)


ARTICLE V.

PLAN REQUIREMENTS

§ 48-57. Building Permit Criteria.

A. Permit Requirement

All development occurring within any floodplain district shall be undertaken only upon the issuance of a building permit. Such development shall be undertaken only in strict compliance with the provisions of this chapter and with all other applicable codes and ordinances, as amended, such as the Virginia Uniform Statewide Building Code (VA USBC) and the Arlington County Code. Prior to the issuance of any such permit, the Floodplain Administrator shall require all applications to include compliance with all applicable state and federal laws and shall review all sites to assure they are reasonably safe from flooding. Under no circumstances shall any use, activity, and/or development adversely affect the capacity of the channels or floodways of any watercourse, drainage ditch, or any other drainage facility or system.

B. Permit Applications

All applications for development within any floodplain district and all building permits issued within the floodplain shall incorporate the following information:
1. The elevation of the Base Flood at the site.

2. The elevation of the lowest floor (including basement).

3. For structures to be flood-proofed (non-residential only), the elevation to which the structure will be flood-proofed.

4. Topographic information showing existing and proposed ground elevations.

C. Whenever an applicant proposes to offset the effects of development in the floodplain district by construction of stream improvements, he shall submit an engineering study prepared by a duly registered professional engineer which fully evaluates the effects of such construction. All adjacent communities, the Virginia Department of Conservation and Recreation (Division of Dam Safety and Floodplain Management), and the Federal Emergency Management Agency (FEMA) shall be notified by the applicant in writing of all such intended activities at least thirty (30) days prior to commencing work. In addition, the applicant shall confirm in writing to the Director of Environmental Services or his designee that the flood-carrying capacity within any such altered or relocated watercourse is maintained. All uses, activities, and development shall be undertaken in strict compliance with the floodproofing and related provisions contained herein, and in all other applicable codes, ordinances, and regulations.

D. An elevation certificate for new construction or a floodproofing certificate for substantial improvement or commercial construction is to be completed by the applicant and submitted with its permit application.

E. Standards for Subdivision Proposals

1. All subdivision proposals shall be consistent with the need to minimize flood damage;

2. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize flood damage;

3. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards; and

4. Base flood elevation data shall be obtained from other sources or developed using detailed methodologies, hydraulic and hydrologic analyses, comparable to those contained in a Flood insurance Study for subdivision proposals and other proposed development proposals that exceed fifty lots or five acres, whichever is the lesser.

§ 48-58. Additional Information.

In addition to the information normally required for review and approval of preliminary plans, the following information, prepared by a duly registered professional engineer or surveyor, shall be required when any part of the proposed subdivision or other development is within the area of the floodplain district:

A. Name of engineer, surveyor, or other qualified person responsible for providing the information required in this section.

B. A map showing the location of the proposed subdivision or development with respect to the County floodplain district including, without limitation, the following information: the base flood elevations, boundaries of floodprone areas, proposed lots and sites, fills, flood or erosion-protective facilities, and areas subject to special deed restrictions.

C. Where the subdivision or development lies partially or completely in the floodplain district, or
where the subdivision or development borders on the floodplain district, the preliminary plan map shall include
detailed information giving the location and elevation of proposed roads, public utilities, and building sites. All such
maps shall also show contours at intervals of two (2) or five (5) feet depending upon the slope of the land and
identify accurately the boundaries of the floodplain district.
(9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

ARTICLE VI.

ADMINISTRATION

§ 48-59. Designation of the Floodplain Administrator.

The Director of Environmental Services or his or her designee shall administer and implement these
regulations and is referred to herein as the Floodplain Administrator.
(9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-60. Duties and Responsibilities of the Floodplain Administrator.

The duties and responsibilities of the Floodplain Administrator shall include, but are not limited to:

A. Review applications for permits to determine whether proposed activities will be located in the flood
district.

B. Interpret floodplain boundaries and provide available base flood elevation and flood hazard
information.

C. Review all applications for subdivisions or building permits to construct or make substantial
improvements in the floodplain district and shall determine whether the proposed building site is
reasonably safe from flooding and meets the requirements of this chapter.

D. Maintain and permanently keep records that are necessary for the administration of these regulations.

E. The Floodplain Administrator may identify and regulate local flood hazard or ponding areas that are
not delineated on the FIRM. These areas may be delineated on a “Local Flood Hazard Map” using best
available topographic data and locally derived information such as flood of record, historic high water
marks or approximate study methodologies.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-61. District Boundary Changes.

The delineation of any of the Floodplain Districts may be revised by Arlington County where natural or
man-made changes have occurred and/or where more detailed studies have been conducted or undertaken by the
U.S. Army Corp of Engineers or other qualified agency, or an individual documents the need for such change.
However, prior to any such change, approval must be obtained from the Federal Emergency Management Agency.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-62. Submitting Technical Data

Arlington County’s base flood elevations may increase or decrease resulting from physical changes affecting
flooding conditions. As soon as practicable, but not later than six (6) months after the date such information
becomes available, Arlington County shall notify the Federal Emergency Management Agency of the changes by
submitting technical or scientific data. Such a submission is necessary so that upon confirmation of those physical
changes affecting flooding conditions, risk premium rates and flood plain management requirements will be based
upon current data.
(Ord. No. 13-04, 6-15-13, effective 8-19-13)

Code Updated 7-2013
§ 48-63. Boundary Disputes and Waivers.

A. Boundary disputes. Any uncertainty with respect to the boundary of any floodplain district shall be determined by the Director of Environmental Services or his designee by scaling and computation from the flood insurance study.

B. Appeals. Whenever any person is aggrieved by a decision of the Director of Environmental Services or his designee with respect to the interpretation of the provisions of this chapter (except part A of this section), that person shall be entitled to appeal for a waiver of that decision. Such appeal must be made in writing to the County Manager of Arlington County or his designee within thirty (30) days after the decision as set forth below.

C. Waivers. Whenever any person is aggrieved by a decision of the Director of Environmental Services or his designee with respect to the interpretation of the provisions of this chapter (except part A of this section), that person shall be entitled to apply for a waiver of that decision to the County Manager. Such application must be made in writing to the County Manager of Arlington County or his designee within thirty (30) days after the decision as set forth below.

Waivers shall be issued only upon (i) a showing of good and sufficient cause, (ii) after the County Manager or his designee has determined that failure to grant the waiver would result in exceptional hardship to the applicant, and (iii) after the County Manager or his designee has determined that the granting of such waiver will not result in (a) unacceptable or prohibited increases in flood heights, (b) additional threats to public safety, (c) extraordinary public expense; and will not (d) create nuisances, (e) cause fraud or victimization of the public, or (f) conflict with local laws or ordinances.

In reviewing applications for waivers, the County Manager of Arlington County or his designee shall examine all relevant factors and procedures specified in other ordinances and consider the following applicable factors:

1. The danger to life and property due to increased flood heights or velocities caused by encroachments. No waiver shall be granted for any proposed use, development, or activity within any floodway district that will cause any increase in the one hundred-year flood elevation.

2. The danger that materials may be swept on to other lands or downstream to the injury of others.

3. The proposed water supply and sanitation systems and the ability of these systems to prevent disease, contamination, and unsanitary conditions.

4. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owners.

5. The importance of the services provided by the proposed facility to the Arlington County.

6. The requirements of the facility for a waterfront location.

7. The availability of alternative locations not subject to flooding for the proposed use.

8. The compatibility of the proposed use with existing development and development anticipated in the foreseeable future.

9. The relationship of the proposed use to the Arlington County Comprehensive Plan and Floodplain Management Program for the area.

10. The safety of access by ordinary and emergency vehicles to the property in time of flood.
11. The expected heights, velocity, duration, rate of rise, and sediment transport of the flood waters expected at the site.

12. The repair or rehabilitation of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum necessary to preserve the historic character and design of the structure.

13. Such other factors which are relevant to the purposes of this chapter.

The County Manager of Arlington County or his designee may refer any application and accompanying documentation pertaining to any request for a waiver to any engineer or other qualified person or agency for technical assistance, at the cost of the applicant, in evaluating the proposed project in relation to flood heights and velocities and the adequacy of the plans for flood protection and other related matters.

Waivers may be issued only after the County Manager of Arlington County or his designee has determined that the waiver will be the minimum deviation, as determined by the County Manager of Arlington County or his designee, from the requirements necessary to provide relief from hardship to the applicant.

The County Manager of Arlington County or his designee shall notify the applicant in writing that the issuance of the waiver to construct a structure below the one hundred-year flood elevation (a) increases the risks to life and property and (b) will result in increased premium rates for flood insurance. A record shall be maintained by the Director of Environmental Services of the above notification as well as all waiver actions, including justification for the issuance of the waivers. Any waivers which are issued shall be noted in the annual or biennial report submitted to the Federal Insurance Administrator.

(9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 04-25, 10-2-04; Ord. No. 13-04, 6-15-13, effective 8-19-13)


ARTICLE VII.

PENALTIES

§ 48-64 Penalties.

Any person who fails to comply with any of the requirements or provisions of this chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of not less than ten dollars ($10.00) nor more than two thousand five hundred dollars ($2,500.00) or thirty (30) days in jail or both, for each violation. Each day during which any violation of this chapter continues shall constitute a separate offense.

Any structure constructed, reconstructed, enlarged, altered or relocated in noncompliance with this chapter may be declared by Arlington County to be a public nuisance and abated as such. Flood insurance may be withheld from structures constructed in violation of this chapter.

(9-24-77; Ord. No. 91-34, 9-18-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)

ARTICLE VIII.

SEVERABILITY AND COUNTY LIABILITY

§ 48-65. Severability.

If any section, paragraph, sentence, clause, or phrase of this chapter shall be declared invalid for any reason
whatsoever, such decision shall not affect the remaining portions of this chapter which shall remain in full force and
effect, and for this purpose, the provisions of this chapter are hereby declared to be severable.
(9-24-77; Ord. No. 13-04, 6-15-13, effective 8-19-13)

§ 48-66. County Liability.

The degree of flood protection sought by the provisions of this chapter is considered reasonable for
regulatory purposes and is based on acceptable engineering methods of study, but does not imply total flood
protection. Larger floods may occur on rare occasions. Flood heights may be increased by man-made or natural
causes, such as ice jams and bridge openings restricted by debris. This chapter does not imply that districts outside
the Floodplain District or land uses permitted within such district will be free from flooding or flood damages.

This chapter shall not create liability on the part of Arlington County or any officer or employee thereof for
any flood damages that result from reliance on this chapter or any administrative decision lawfully made thereunder.
(9-24-77; Ord. No. 91-43, 12-7-91; Ord. No. 13-04, 6-15-13, effective 8-19-13)