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## CHAPTER 82.14 FLOODPLAIN SAFETY (FP) OVERLAY

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### Sections:

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### **82.14.010 Purpose**

The Floodplain Safety (FP) Overlay established by Sections 82.01.020 (Land Use Plan and Land Use Zoning Districts) and 82.01.030 (Overlays) is created to provide greater public safety, promote public health, and minimize public and private economic losses due to flood conditions by establishing regulations for development and construction within flood prone areas.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012)

### **82.14.020 Location Requirements**

- (a) The Floodplain Safety Overlay Areas described in Section 82.14.040 [Floodplain Safety Review Area] are applied to areas of special flood hazard identified by the Federal Emergency Management Agency (FEMA) or the Federal Insurance Administration in a scientific and engineering report entitled "Flood Insurance Study for San Bernardino County, California and Incorporated Areas," initially prepared in 1978, which has subsequent updates, with accompanying Flood Insurance Rate Maps (FIRMs). Subsequent report and map updates that may be published in the future shall further identify additional flood hazard areas or areas , designated by the County Flood Control District that are areas of undetermined, but possible, shallow flooding. The most current copies of the Flood Insurance Study (FIS) and the Flood Insurance Rate Maps (FIRMs) are on file at the Department of Public Works.
- (b) FIS establishes the minimum areas to which the FP Overlays may be applied. Additional areas may be added after studies for the areas are prepared by the Flood Control District or other governmental agencies (e.g., Corps of Engineers).

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012); Amended Ordinance XXXX (2017)

**82.14.030 Applicability**

No structure or land use shall hereafter be constructed, located, extended, converted, or altered without full compliance with the provisions of this Chapter and other applicable regulations. Violations of the provisions of this Chapter by failure to comply with any of its requirements (including violation of conditions and safeguards required by conditions of approval) shall be subject to the penalties established by this Development Code. Nothing in this Chapter shall prevent the County from taking lawful action as is necessary to prevent or remedy any violation.

- (a) **Abrogation and greater restrictions.** The provisions of this Chapter are not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions or any map changes made by FEMA. However, where this Chapter or other section, easement, covenant, or deed restriction or map revision as may be made by FEMA conflict or overlap, the more stringent regulations or standards shall govern.
- (b) **Interpretation.** In the interpretation and application of this Chapter all provisions shall be considered as minimum requirements, liberally construed in favor of the governing body and, deemed neither to limit nor repeal any other powers granted under state statutes.
- (c) **Implementation.** The requirements of this Section shall be integrated into the processing and review of all land use applications and development permits where specific flood hazard review and flood protection recommendations are made by the County.
- (d) **Warning and Disclaimer of Liability.** The degree of flood protection required by this Chapter is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. These regulations do not imply that land outside the areas of special flood hazards or uses permitted within such areas will be free from flooding or flood damages. These provisions shall not create liability on the part of the County, any officer or employee thereof, the State of California, or the Federal Emergency Management Agency, for any flood damages that result from reliance on these regulations or any administrative decision lawfully made hereunder.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4098 (2009); Amended Ordinance 4163 (2012); Amended Ordinance 4254 (2014)

**82.14.040 Floodplain Safety Review Areas**

The Floodplain Safety Overlay (FP) shall be subdivided into flood hazard zone areas as follows. Proposed development shall comply with the following requirements.

- (a) **100-year floodplain.** The 100-year floodplain includes areas subject to a base flood (also called “100-year flood”) as defined by the Federal Flood Insurance Regulations. The following are the FEMA-designated flood hazard zones for this area: A, AE, AH, A1-30 and AO. (Note: FEMA-designated regulatory floodway is included within the AE zone.) The following standards shall apply to property within these zones.
- (1) **Elevation of first floor.** New construction and substantial improvement of any structure shall be constructed so that the first floor (including basement) shall be one foot or more above the base flood elevation, when the FEMA map base flood elevations are shown, and will not result in any significant increase in flood levels during a base flood discharge. When the base flood elevations are not shown, new construction and substantial improvement of any residential structure shall be constructed so that the first floor (including basement) shall be two feet or more above the highest adjacent grade.
  - (2) **Review procedures.** A project proposed in this area shall be subject to a Floodplain Development Standards Review. These reviews shall ensure that the proposed project complies with this Development Code regarding flood protection measures and shall require the submittal of an Elevation Certificate completed by a licensed land surveyor, registered civil engineer, or architect who is authorized by State or local law to certify elevation information.
  - (3) **Development Restriction.** In areas where no regulatory floodway has been designated by FEMA, new construction, substantial improvement or other development (including fill) shall not be permitted within any areas designated by FEMA as A, A1-30, AO, AH, or AE on the FIRMs, 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 foot at any point within the community.
  - (4) **FEMA-Designated Floodways.** Floodways, as defined by FEMA, are different from the Floodway Land Use Zoning District established in Chapter 82.01 [Land Use Plan, Land Use Zoning Districts, and Overlays] and regulated by Chapter 82.03 [Agriculture and Resource Management Land Use Zoning Districts] of this Title. They are defined as the channels of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot. They are also referred to as "Regulatory Floodways" [see Subsection 810.01.080(ff)(25)]. They are generally coterminous with the County’s Floodway Land Use Zoning Districts. They are considered FEMA-designated flood hazard zones in that they are included within the AE zone.

- (b) **100 to 500-year floodplain.** This area includes areas between limits of the base flood (100-year flood) and a 500-year flood; and certain areas subject to 100-year flooding with an average depth of less than one foot or where the contributing drainage areas are less than one square mile; or areas protected by levees from the base flood. The following are the FEMA-designated flood hazard zones for this area: A-99 and the shaded Zone X. The following standards shall apply to property within these zones.
- (1) **Elevation of first floor.** New construction and substantial improvement of any structure shall be so constructed that the first floor (including basement) shall be one foot above the highest adjacent grade.
  - (2) **Review procedures.** A project proposed in this area shall be subject to a Floodplain Development Standards Review conducted by the Building and Safety Division based upon the determination by the Land Development Division of the Land Use Services Department. This review shall ensure that the proposed project complies with this Development Code regarding flood protection measures. .
- (c) **Undetermined flood hazards.** This area includes areas of undetermined, but possible, shallow flooding as determined by the County, the Flood Control District, or other governmental agency. The following standards shall apply to property within this area:
- (1) **Final building plan content.** The final building plans that are submitted for approval shall show the approved location and mitigating measures.
  - (2) **Development Standards.** Development Standards for the Undetermined flood hazard Area shall be determined on a case-by-case and shall be dependent upon the specific of the project. A Floodplain Development Standards Review may be required.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012); Amended Ordinance XXXX (2017)

#### **82.14.050 Development Standards for Floodplain Safety Review Areas**

- (a) **Anchoring.** All new construction and substantial improvements of structures, including manufactured homes, shall be anchored to the foundation to prevent flotation, collapse or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy. If a structure is elevated on fill as specified in Subsection 82.14.050(c), and 82.14.050(d)(1), the anchoring requirement shall be satisfied. Other alternative anchoring techniques that are effective may be considered.

- (b) **Construction materials and methods.** All new construction and improvements of structures whether substantial or not, including manufactured homes, shall be constructed:
- (1) With materials and utility equipment installed below the base flood elevation or the highest adjacent grade that are resistant to flood damage. This would include but not be limited to water resistant lumber, floor coverings, adhesives, paints, masonry construction and finishes, water proof electrical systems, and mechanical footings, or other acceptable materials measures. (See FEMA Technical Bulletin TB 2-93.)
  - (2) Using methods and practices that minimize flood damage. This would include but not be limited to elevating the structure, aligning the structure to be parallel with water flow, increasing the structural designs to withstand hydrologic and hydrographic sources, and increasing the depth of footings.
  - (3) With electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.
  - (4) So that adequate drainage paths are provided around structures on slopes to guide flood waters around and away from proposed structures.
- (c) **Grading.** If fill is placed to elevate pads above base elevation, it must be demonstrated that fill will not settle and is protected from erosion, scour, or differential settlement, as follows.
- (1) The pad elevation shall be certified to meet or exceed the elevation required by the applicable Floodplain Safety Review Area, and it must be 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 foot at any point within the community.
  - (2) Fill shall be compacted to 95 percent per ASTM (American Society of Testing Materials) Standard D-698.
  - (3) Fill slopes shall be no steeper than two feet horizontal to one foot vertical ratio unless substantiating data for steeper slopes is provided, and the slopes are approved by the County.
  - (4) Fill slopes adjacent to a water course may be required to be armored with stone, rock or approved equal protection.

**(d) Elevation and flood-proofing.**

- (1) **Residential Structures.** New construction and substantial improvement of any residential structure shall include having the lowest floor (including basement), elevated to one foot above base flood elevation or two feet or more above the highest adjacent grade in the 100-year floodplain area, and one foot above highest adjacent grade in the 100 to 500-year floodplain area. Upon completion of the structure, the elevation of the lowest floor (including basement) shall be certified by a registered civil engineer or licensed land surveyor to be properly elevated above the floodplain elevation at the time of certification. The certification shall be provided on the current FEMA Elevation Certificate form to the Building Official. In accordance with FEMA regulations (Substantial Improvement & Substantial Damage), the following shall apply relative to existing residential structures and substantial improvements:
- (A) If the cost of a rehabilitation or addition is not a substantial improvement, the existing building does not have to be elevated or otherwise protected. However, it is advisable to incorporate methods to reduce flood damage, such as use of flood-resistant materials and installation of electrical, heating and air conditions units above the base flood elevation.
  - (B) If the cost of a rehabilitation is a substantial improvement, the existing building shall be elevated and/or the basement filled to meet the elevation standard.
  - (C) If an addition to a structure is a substantial improvement, the addition must be elevated or flood-proofed, providing that improvements to the existing structure are minimal. The existing structure may not have to be elevated if the common wall remains intact with the exception of a doorway. If the structure is within any A Zone and if substantial improvements are made to the existing structure (such as a kitchen makeover), both the existing structure and the addition must be elevated and otherwise brought into compliance.
  - (D) When a proposed substantial improvement is a vertical addition and the lower floor is to be used for any other purpose than a garage for the parking of private passenger vehicles, the entire structure must be elevated.
  - (E) Additions that are not substantial improvements shall meet the applicable requirements of Subsection 82.14.050(b) above.
- (2) **Nonresidential Construction.** Nonresidential construction shall be either elevated in compliance with Subsection (d)(1) of this Section or be dry flood-proofed. Dry flood-proofing shall consist of all of the following:

- (A) The area below the base flood level, together with attendant utility and sanitary facilities, shall be constructed so that the structure is watertight with walls substantially impermeable to the passage of water;
  - (B) The structural components shall be capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy; and
  - (C) The structure shall be certified by a registered civil engineer or architect that the standards of this subsection are satisfied. Such certifications shall be provided to the Floodplain Administrator.
- (3) **Flood Openings.** In addition to the provisions of 82.14.050(d)(1) and (2) above, all new construction and improvements to existing structures with fully enclosing structural areas below the lowest floor (excluding basements) that are used solely for parking of vehicles, building access or storage, and that are subject to flooding, shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must meet the following minimum criteria:
- (A) For non-engineered openings, have a minimum of two openings on different sides having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding. The bottom of all openings shall be no higher than one foot above grade. Openings may be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of floodwaters. Also, buildings with more than one such enclosed area must have openings on exterior walls for each area to allow flood water to directly enter and exit; or
  - (B) Be certified by a registered civil engineer or an architect. This certification must be verified by the Floodplain Administrator.
  - (C) Flood openings may not be appropriate on alluvial fans or high debris flow areas (i.e. alluvial fans) and are subject to review and approval by the appropriate County reviewing agency. Structural calculations that address hydrostatic and hydrodynamic loading shall be submitted by the applicant as part of this approval process.
- (4) **Garages and low cost accessory structures.**
- (A) **Attached garages.**
    - (I) A garage attached to a residential structure, constructed with the garage floor slab below the base flood elevation, must be designed to allow for the automatic entry of flood waters. Areas of the garage

below the base flood elevation must be constructed with flood resistant materials.

- (II) A garage attached to a nonresidential structure must meet the above requirements or be dry flood-proofed. (For guidance on below grade parking areas, see FEMA Technical Bulletin TB-6.)

**(B) Detached garages and accessory structures.**

- (I) “Accessory structures” used solely for parking (two-car detached garages or smaller) or limited storage (small, low-cost sheds), may be constructed such that its floor is below the base flood elevation, provided the structure is designed and constructed in accordance with the following requirements:
  - (i) Use of the accessory structure must be limited to parking or limited storage;
  - (ii) The portions of the accessory structure located below the base flood elevation must be built using flood-resistant materials;
  - (iii) The accessory structure must be adequately anchored to prevent flotation, collapse and lateral movement;
  - (iv) Any mechanical and utility equipment in the accessory structure must be elevated or flood-proofed to or above the base flood elevation;
  - (v) The accessory structure must comply with floodplain encroachment provisions in Subsection 82.14.050(g)(1) below; and
  - (vi) The accessory structure must be designed to allow for the automatic entry of flood waters in accordance with Subsection 82.14.050(d)(3)(C) above.
- (II) Detached garages and accessory structures not meeting the above standards must be constructed in accordance with all applicable standards in this Section and to the elevations required by the Floodplain Safety Area in which it is located.

- (5) **Crawl Space Construction.** This subsection applies to buildings with crawl spaces up to two feet below grade. Below-grade crawl space construction in accordance with the requirements listed below will not be considered basements.



- (A) The building must be designed and adequately anchored to resist flotation, collapse, and lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy. Crawl space construction is not allowed in areas with flood velocities greater than five feet per second unless the design is reviewed by a qualified design professional, such as a registered architect or civil engineer;
- (B) The crawl space is an enclosed area below the base flood elevation and, as such, must have openings that equalize hydrostatic pressures by allowing for the automatic entry and exit of floodwaters. (For guidance on flood openings, see FEMA Technical Bulletins 11-01 and 1-08);
- (C) Portions of the building below the base flood elevation must be constructed with materials resistant to flood damage. This includes not only the foundation walls of the crawl space used to elevate the building, but also any joists, insulation, or other materials that extend below the base flood elevation; and
- (D) Any building utility systems within the crawl space must be elevated above base flood elevation or designed so that floodwaters cannot enter or accumulate within the system components during flood conditions.
- (E) Requirements for all below-grade crawl space construction, in addition to the above requirements, to include the following:
  - (I) The interior grade of a crawl space below the base flood elevation must not be more than two feet below the lowest adjacent exterior grade;
  - (II) The height of the below-grade crawl space, measured from the interior grade of the crawl space to the top of the crawl space foundation wall must not exceed four feet at any point;
  - (III) There must be an adequate drainage system that removes floodwaters from the interior area of the crawl space within a reasonable period of time after a flood event, not to exceed 72 hours; and
  - (IV) The velocity of floodwaters at the site should not exceed five feet per second for any crawl space. For velocities in excess of five feet per second, other foundation types should be used.

**(e) Utility standards.**

- (1) All new and replacement water supply and sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system and discharge from systems into flood waters.
- (2) On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.
- (3) All public utilities and facilities such as electrical, telephone, cable TV, gas etc., shall utilize floodproofing measures in their location and construction to minimize flood damage. They shall be adequately anchored to prevent flotation, collapse or lateral movement of the facility resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy.

**(f) Design requirements.** All development proposals, including subdivisions, shall comply with the following requirements:

- (1) All preliminary proposals shall identify the special flood hazard area and the elevation of the base flood.
- (2) All final plans shall provide the elevation of proposed structures and pads above the floodplain elevation as derived from the FEMA map adopted at the time of certification. If the site is filled above the base flood, the final pad elevation shall be certified by a registered civil engineer or licensed land surveyor and shall be submitted to the Floodplain Administrator. The entire site need not be elevated; only the building pads need be elevated and other means of conducting storm flows through the site shall be provided.
- (3) All proposals shall be consistent with the need to minimize flood damage.
- (4) All proposals shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize flood damage.
- (5) All proposals shall provide adequate drainage to reduce exposure to flood hazards and not deflect flood flows onto other properties.

**(g) Manufactured homes.** All new and replacement manufactured homes and additions to manufactured homes shall comply with all applicable provisions this Section in addition to the following:

- (1) Elevations.
  - (A) Within Zones A1-30, AO, AH, and AE of the 100-year Floodplain Safety Review Area, all manufactured homes shall be elevated on a permanent

foundation such that the lowest floor of the manufactured home is elevated to one foot or more above the base flood elevation; or

- (B) Within Zone A, all manufactured homes shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated to two feet or more above the highest adjacent grade; or
- (C) Within the 100 to 500-year Floodplain Safety Review Area, all manufactured homes shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated to one foot or more above the highest adjacent grade.

- (2) All manufactured homes shall be securely anchored to a permanent foundation system to resist flotation, collapse or lateral movement. Methods of anchoring shall include, but not be limited to, the use of over-the-top or frame ties to ground anchors.
- (3) Upon the completion of the structure, the elevation of the lowest floor including basement shall be certified by a registered civil engineer or licensed land surveyor, and verified by the Floodplain Administrator.

**(h) Floodway standards.** FEMA-designated floodways are extremely hazardous areas due to the velocity of flood waters that carry debris, potential projectiles, and erosion potential, therefore, the following provisions apply:

- (1) Encroachments, including fill, new construction, substantial improvements, stockpiling, and other development are prohibited unless certification by a registered civil engineer or architect is provided, demonstrating that encroachments shall not result in any increase in flood levels during the occurrence of the base flood discharge.
- (2) If Subsection 82.14.050(g)(1) above is satisfied, all new construction and substantial improvements shall comply with all other applicable flood hazard reduction provisions of this Chapter.

**(i) Recreational Vehicles.** All recreational vehicles placed in the 100-year floodplain area will:

- (1) Be on the site for fewer than 180 consecutive days; or
- (2) 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

- (3) Meet the permit requirements of Section 82.14.030 and the elevation and anchoring requirements for manufactured homes in Subsection 82.14.050(g)

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012); Amended Ordinance 4254 (2014); Amended Ordinance XXXX (2017)

### 82.14.060 Exceptions and Modifications

- (a) **Exceptions.** The following structures and land uses are exempt from the requirements and standards established by this Chapter.
  - (1) The reconstruction, rehabilitation or restoration of structures listed on the National Register of Historic Places or a State Inventory of Historic Places upon a determination by the Director that the proposed repair or rehabilitation will not preclude the structure's continued designation as an historic structure and the exception is the minimum necessary to preserve the historic character and design of the structure.
  - (2) Replacement of utilities, including septic systems, in compliance with health and safety codes shall be exempt from the flood elevation requirements of this Development Code and shall otherwise be subject to the legal non-conforming use provisions of this Development Code.
  - (3) Structures of such a minor nature that they are exempt from development permits, provided it can be demonstrated that there is no effect contrary to the intent and purpose of the County's floodplain regulations.
- (b) **Modifications.** In the public interest, the Building Official or the Floodplain Administrator may, without notice or public hearing, approve, conditionally approve, deny or refer to the Commission requests to modify the requirements of the Floodplain Safety (FP) Overlay.
  - (1) **Procedure.** Written application (either Major Variance or Minor Variance) for such modifications shall be submitted to the Planning Division, upon the forms provided by the County for this purpose.
  - (2) **Required findings.** A modification to the standards imposed by this Chapter shall be allowed subject to lawful conditions that will secure substantial protection for the public health, safety and general welfare and provided that all of the following be found and justified as being true:
    - (A) The modification, if within any designated regulatory floodway, will not result in any significant increase in flood levels during the base flood discharge.

- (B) The modification is for new construction or substantial improvement, and other proposed new development to be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the base flood level, providing that the procedures of this Chapter have been fully considered. As the lot size increases beyond one-half acre, the technical justification required for issuing the variance increases.
  - (C) The granting of the modification will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud or victimization of the public or conflict with existing laws or ordinances.
  - (D) The modification is the minimum necessary, considering the flood hazard, to afford relief and is consistent with the objectives of sound floodplain management.
- (c) **Written Notification.** Any applicant to whom an exception is granted shall be given written notice:
- (1) The issuance of an exception to construct a structure below the base flood level will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage, and
  - (2) Such construction below the base flood level increases risks to life and property. A Notice of Condition shall be recorded by the Floodplain Administrator in the Office of the County Recorder and shall be recorded in a manner so that it appears in the chain of title of the affected parcel of land.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012)

#### **82.14.070 Boundary Changes**

An applicant may apply to FEMA for an adjustment to the designated Base Flood elevation and/or other designations on the FIRM. Prior to submitting such application to FEMA, all required documents required by FEMA must be submitted to the Flood Control District for review and acknowledgement. Depending on the size, scope and specific design a land use proposal within the County, an applicant for such proposal may be required to submit an application to FEMA for an adjustment to the base flood elevation. The Department of Public Works will determine if this FEMA application is actually required.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012)

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## CHAPTER 85.07 FLOOD HAZARD DEVELOPMENT REVIEWS

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### Sections:

- 85.07.010 Purpose
- 85.07.020 Reserved
- 85.07.030 Floodplain Development Standards Review Procedures

#### **85.07.010 Purpose**

The purpose of this Chapter is to provide processes for the Floodplain Development Standards Review in compliance with this Development Code.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012); Amended Ordinance XXXX (2017)

#### **85.07.020 Reserved**

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4163 (2012); Amended Ordinance XXXX (2017)

#### **85.07.030 Floodplain Development Standards Review Procedures**

- (a) **Procedure.** Staff Review without Notice.
- (b) **Review Authority.** Building Official.
- (c) **Applicability.** A Floodplain Development Standards Review shall be completed before the approval of a land use application or issuance of a development permit in specified areas or where required by the Director or the Building Official.
- (d) **Recommendation.** The Land Development Division of the Land Use Services Department shall review and act upon requests for Floodplain Development Standards Reviews. The Division's recommendations from these reviews shall be incorporated into the requirements of the development permit and/or the land use application review.
- (e) **Application requirements.** An application for a Floodplain Development Standards Review shall be filed and processed in compliance with Chapter 85.03 (Application Procedures). The application shall include the information and materials specified in Chapter 82.14 or drainage study requirements within undetermined flood hazard areas.
- (f) Notation of the elevation of the first floor. Where a Floodplain Development Standards Review has been completed, the review authority shall note the elevation of the first floor (including basement) of a proposed structure on the development permit and confirm that it is either:
  - (1) One foot above the base flood elevation when the FEMA map base flood elevations are shown, as determined from drainage study, or two feet or more above the highest

adjacent grade when the base flood elevations are not shown in any area designated as a 100-year floodplain; or

- (2) One foot above the highest adjacent grade in any area designated as an 100 to 500-year floodplain.
  
- (g) **Structure siting.** Any structure within a project requiring a Floodplain Development Standards Review shall be sited to modify or maintain the natural drainage way in a manner acceptable to and approved by the Building Official.

Adopted Ordinance 4163 (2012); Amended Ordinance XXXX (2017)

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## CHAPTER 85.11 PRE-CONSTRUCTION FLOOD HAZARD MITIGATION AND EROSION CONTROL INSPECTION

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### Sections:

- 85.11.010 Purpose
- 85.11.015 Scope
- 85.11.020 Flood Hazard Mitigation Required
- 85.11.030 Erosion Control Plan and Inspection Required

### 85.11.010 Purpose

The provisions of this Chapter are enacted to control soil erosion pollution and regulate construction of proposed structures that are subject to flood hazards due to storm events within local flood hazard areas that are not within a designated Flood Plain Safety (FP) Overlay District or Floodway (FW) Land Use Zoning District.

Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4085 (2009)

### 85.11.015 Scope

The provisions of this Chapter apply to all unincorporated areas of the County except that Section 85.11.020 shall only apply to areas not within a designated Flood Plain (FP) Overlay District or Floodway (FW) Land Use Zoning District.

Adopted Ordinance 4085 (2009)

### 85.11.020 Flood Hazard Mitigation Required

- (a) **No disturbance of land and/or construction without prior approval.** No person, except as provided in this Chapter, shall commence with a disturbance of land (e.g., grading or land clearing) and/or construction activity that has the potential to affect a discernible water course without first obtaining approval to ensure that the disturbance and/or construction activity will not increase the velocity or alter the direction or point of discharge of a local drainage course in a manner that it negatively effects the proposed structure(s) or other adjacent properties.
- (b) **Determination by the Building Official.** The Building Official shall determine, upon visual inspection of the site and review of any pertinent available resources, whether there is evidence of a discernible watercourse that could affect or could be affected by the proposed improvements or land disturbing activity.
  - If evidence of a discernible watercourse exists, the Building Official may require a Floodplain Development Standards Review conducted by the Land Development Division that will provide further review of the site and proposed improvements. A review fee may be required.



Adopted Ordinance 4011 (2007); Amended Ordinance 4067 (2009); Amended Ordinance 4085 (2009); Amended Ordinance 4163 (2012); Amended Ordinance XXXX (2017)

### **85.11.030 Erosion Control Plan and Inspection Required**

- (a) **No land disturbance or construction activity without prior approval.** No person except as provided in this chapter, shall commence with a disturbance of land (e.g. grading or land clearing) or construction activity that has that potential to cause erosion without first obtaining approval of erosion control measures to ensure that erosion would not reasonably be expected to occur. Best Management Practices (BMP's) shall be implemented at all land disturbance sites, regardless of the area of disturbance.
- (b) **Inspections required.** Site inspections shall be conducted as needed to verify compliance with this Chapter. Project proponents must also recognize that their project is subject to inspection by the Public Works Department, Environmental Management Division and Regional Water Quality Control Board staff as part of their General Construction Permit obligations.
- (c) **Stormwater Pollution Prevention Plan.** Projects disturbing more than one acre are also required to have coverage under the State General Construction Permit issued by the State Water Resources Control Board and develop a Stormwater Pollution Prevention Plan (SWPPP). The property owner is required to abide by all provisions of the State General Construction Permit and obtain a Waste Discharge Identification (WDID) number prior to the issuance of building or grading permits when the disturbance is more than one acre.
- (d) **Review requirements of plan.** The Building Official, with the concurrence of the Planning Division and the, Land Development Division, when appropriate, shall review the plan and determine that the proposed erosion control measures will be adequate and whether or not an erosion control permit is specifically required.
- (e) **Maintenance of features.** The required features of the approved Erosion Control Plan shall be implemented during the land disturbing activity and maintained thereafter in accordance with the approved plan.

Adopted Ordinance 4085 (2009); Amended Ordinance XXXX (2017)