

**TOWN OF RED CLIFF, COLORADO
ORDINANCE 12, SERIES 2013**

AN ORDINANCE ADOPTING NEW FLOODPLAIN AND FLOOD DAMAGE PREVENTION REGULATIONS CONSISTENT WITH THOSE RULES AND REGULATIONS FOR REGULATORY FLOODPLAINS ADOPTED BY THE STATE OF COLORADO IN JANUARY 2011 BY REPEALING THE EXISTING ARTICLE 11 OF CHAPTER 16 OF THE TOWN OF RED CLIFF MUNICIPAL CODE AND REPLACING IT WITH A NEW ARTICLE 11.

WHEREAS, the Town of Red Cliff (“Town”) is a municipal corporation and body politic organized under the laws of the State of Colorado and possessing the maximum powers, authority and privileges to which it is entitled under Colorado law;

WHEREAS, effective January 14, 2011, the State of Colorado adopted higher standards than previously existed for floodplain management in the form of the Rules and Regulations for Regulatory Floodplains in Colorado issued by the Department of Natural Resources’ Colorado Water Conservation Board (“Rules”);

WHEREAS, the Rules establish the effective minimum standards for flood and floodplain regulation and management in the State of Colorado and, by extension, the National Flood Insurance Program;

WHEREAS, the Town is required to adopt local regulations consistent with the Rules no later than January 14, 2014;

WHEREAS, in order for it to remain in good standing with the National Flood Insurance Program and be eligible for grant funding through the Colorado Water Conservation Board, the Town is required to adopt local regulations consistent with the Rules in a legally enforceable document by January 14, 2014; and,

WHEREAS, the Town seeks to conform the Town of Red Cliff Municipal Code to the requirements set forth in the Rules.

NOW, THEREFORE, THE TOWN OF RED CLIFF ORDAINS:

Section 1: Article 11 of Chapter 16 of the Town of Red Cliff Municipal Code is repealed.

Section 2: A new Article 11 of Chapter 16 is added to the Town of Red Cliff Municipal Code in the form attached hereto and incorporated by reference.

Section 3: Declaration. The Board of Trustees hereby finds, determines and declares that this Ordinance is necessary and proper to protect the public health, safety and welfare of the Town and its inhabitants.

Section 4: Severability. If any section, paragraph, clause, provision or part of this Ordinance is for any reason held to be invalid or unenforceable, the remainder of this Ordinance shall continue in full force and effect, it being the intent of the Board of Trustees that this Ordinance would have been adopted even if such invalid or unenforceable matter had not been included therein. It is further declared that if any section, provision or part of this Ordinance, or the application thereof to any person or circumstance, is

held invalid, the remainder of the Ordinance and the application thereof to other persons shall not be affected thereby.

Section 5: Effective Date. This Ordinance shall become effective thirty (30) days after publication following final passage.

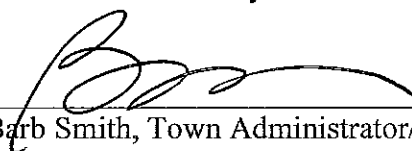
INTRODUCED, TITLE READ IN FULL, APPROVED ON THE FIRST READING, APPROVED AND ORDERED POSTED IN FULL THIS 17th DAY OF DECEMBER, 2013. A public hearing on the SECOND READING of this Ordinance shall be held at the regular meeting of the Board of Trustees of the Town of Red Cliff, Colorado, on the 7th day of JANUARY, 2014 at 7:00 p.m. in the Town Hall of the Town of Red Cliff, Colorado.

TOWN OF RED CLIFF, COLORADO



Scott Burgess, Mayor

ATTEST:



Barb Smith, Town Administrator/Clerk

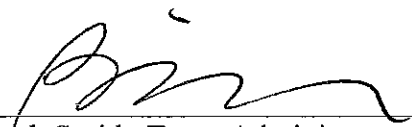
ADOPTED AND ORDERED PUBLISHED on this 7th day of January, 2014.

TOWN OF RED CLIFF, COLORADO



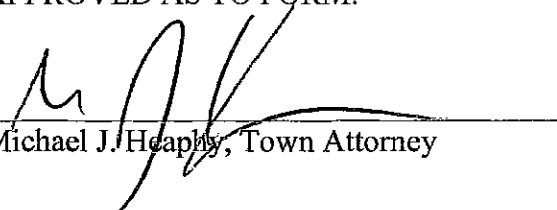
Scott Burgess, Mayor

ATTEST:



Barb Smith, Town Administrator/Clerk

APPROVED AS TO FORM:



Michael J. Heaphy, Town Attorney

ARTICLE 11

Flood Damage Prevention

Part 1: Title, Purpose and Definitions

Sec. 16-11-100. Statutory Authorization.

The Legislature of the State of Colorado has, in Title 29, Article 20, of the Colorado Revised Statutes delegated to local government units the responsibility for adopting regulations designed to minimize flood losses. Therefore, the Board of Trustees ("Board") of the Town of Red Cliff, Colorado ("Town"), does hereby adopt the following floodplain management regulations.

Sec. 16-11-110. Findings of Fact.

(a) The flood hazard areas of the Town may be subject to periodic inundation which can result in loss of life and property, health and safety hazards, disruption of commerce and governmental services and extraordinary public expenditures for flood protection and relief, all of which adversely affect the health, safety and general welfare of the public.

(b) Such flood losses may be created by the cumulative effect of obstructions in floodplains which cause an increase in flood heights and velocities and by the occupancy of flood hazard areas by uses vulnerable to floods and hazardous to other lands because they are inadequately elevated, floodproofed or otherwise protected from flood damage.

Sec. 16-11-120. Statement of Purpose.

It is the purpose of this Article to promote public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- (a) Protect human life and health;
- (b) Minimize expenditure of public money for costly flood control projects;
- (c) Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- (d) Minimize prolonged business interruptions;
- (e) Minimize damage to critical facilities, infrastructure and other public facilities such as water, sewer and gas mains, electric and communications stations, and streets and bridges located in floodplains;
- (f) Help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize future flood blight areas; and,
- (g) Insure that potential buyers are notified that property is located in a flood hazard area.

Sec. 16-11-130. Methods of Reducing Flood Losses.

In order to accomplish its purposes, this Article uses the following methods:

- (a) Restrict or prohibit uses that are dangerous to health, safety or property in times of flood or cause excessive increases in flood heights or velocities;
- (b) Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
- (c) Control the alteration of natural floodplains, stream channels and natural protective barriers, which are involved in the accommodation of flood waters;

- (d) Control filling, grading, dredging and other development which may increase flood damage; and,
- (e) Prevent or regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands.

Sec. 16-11-140. Definitions.

Unless specifically defined below, words or phrases used in this Article shall be interpreted to give them the meaning they have in common usage and to give this Article its most reasonable application.

- (a) *100-Year Flood* means a flood having a recurrence interval that has a one-percent chance of being equaled or exceeded during any given year (1-percent-chance-of-annual-flood). The term does not imply that the flood will necessarily happen once every one hundred years.
- (b) *100-Year Floodplain* mean the area of land susceptible to being inundated as a result of the occurrence of a 100-year flood.
- (c) *500-Year Flood* means a flood having a recurrence interval that has a 0.2 percent chance of being equaled or exceeded during any given year (0.2-percent-chance-of-annual-flood). The term does not imply that the flood will necessarily happen once every five hundred years.
- (d) *500-Year Floodplain* means the area of land susceptible to being inundated as a result of the occurrence of a 500-year flood.
- (e) *Addition* means any activity that expands the enclosed footprint or increases the square footage of an existing structure.
- (f) *Alluvial Fan Flooding* means a fan-shaped sediment deposit formed by a stream that flows from a steep mountain valley or gorge onto a plain or the junction of a tributary stream with the main stream. Alluvial fans contain active stream channels and boulder bars and recently abandoned channels. Alluvial fans are predominantly formed by alluvial deposits and are modified by infrequent sheet flood, channel avulsions and other stream processes.
- (g) *Area of Shallow Flooding* means an area designated Zone AO or AH on the Town's flood insurance rate map with a one percent or greater annual chance of flooding to an average depth of one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow.
- (h) *Base Flood Elevation* means the elevation shown on a FEMA flood insurance rate map for Zones AE, AH, A1-A30, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO, V1-V30 and VE that indicates the water surface elevation resulting from a flood that has a one percent chance of equaling or exceeding that level in any given year.
- (i) *Basement* means any area of a building having its floor sub-grade (below ground level) on all sides.
- (j) *Channel* means the physical confines of a stream or waterway consisting of a bed and stream banks existing in a variety of geometries.
- (k) *Channelization* means the artificial creation, enlargement or realignment of a stream channel.
- (l) *Code of Federal Regulations (CFR)* means the codification of the general and permanent Rules published in the Federal Register.
- (m) *Community* means any political subdivision in the State of Colorado that has authority to adopt and enforce floodplain management regulations through zoning, including, but not limited to, cities, towns, unincorporated areas in the counties, Indian tribes and draining and flood control districts.
- (n) *Conditional Letter of Map Revision* means FEMA's comment on a proposed project, which does not revise an effective floodplain map, that would, upon construction, affect the hydrologic or hydraulic characteristics of a flooding source and thus result in modification of the existing regulatory floodplain.
- (o) *Critical Facility* means a structure or related infrastructure, but not the land on which it is situated, as specified in § 16-11-470, that if flooded may result in significant hazards to public health and safety or interrupt essential services and operations for the community at any time before, during and after a flood.

(p) *Development* means any man-made change in improved or unimproved real estate, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavating or drilling operations or storage of equipment or materials.

(q) *DFIRM Database* means the databases, usually spreadsheets containing data and analyses, that accompany digital flood insurance rate maps.

(r) *Digital Flood Insurance Rate Map* means a FEMA digital floodplain map. These digital maps serve as "regulatory floodplain maps" for insurance and floodplain management purposes.

(s) *Elevated Building* means a non-basement building (i) built, in the case of a building in Zones A1-30, AE, A, A99, AO, AH, B, C, X and D, to have the top of the elevated floor above the ground level by means of pilings, columns (posts and piers) or shear walls parallel to the flow of the water and (ii) adequately anchored so as not to impair the structural integrity of the building during a flood of up to the magnitude of the base flood. In the cases of Zones A1-30, AE, A, A99, AO, AH, B, C, X and D, "elevated building" also means and includes a building elevated by means of fill or solid foundation perimeter walls with opening sufficient to facilitate the unimpeded movement of flood waters.

(t) *Existing Manufactured Home Park or Subdivision* means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at minimum, the installation of utilities, the construction of streets and either final site grading or the pouring of concrete pads) is completed before the effective date of this Article.

(u) *Expansion to an Existing Manufactured Home Park or Subdivision* means the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets and either final site grading or the pouring of concrete pads).

(v) *Federal Register* means the official daily publication for rules, proposed rules and notices of Federal agencies and organizations as well as executive orders and other presidential documents.

(w) *FEMA* means the Federal Emergency Management Agency, the agency responsible for administering the National Flood Insurance Program.

(x) *Flood or Flooding* means a general temporary condition of partial or complete inundation of normally dry land areas from (i) the overflow of water from channels and reservoir spillways, (ii) the unusual and rapid accumulation or runoff of surface waters from any source or (iii) mudslides and mudflows that occur from excess surface water that is combined with mud or other debris that is sufficiently fluid so as to flow over the surface of normally dry land areas (such as earth carried by a current of water and deposited along the path of the current).

(y) *Flood Insurance Rate Map* means an official map of a community on which FEMA has delineated both special flood hazard areas and the risk premium zones applicable to the community.

(z) *Flood Insurance Study* means the official report provided by FEMA. The report contains the flood insurance rate map as well as flood profiles for studied flooding sources that can be used to determine base flood elevations for some areas.

(aa) *Floodplain or Flood-Prone Area* means any land area susceptible to being inundated as the result of a flood, including the area of land over which floodwater would flow from the spillway of a reservoir.

(bb) *Floodplain Administrator* means the Town official designated by title to administer and enforce these floodplain management regulations.

(cc) *Floodplain Development Permit* means the permit required before construction or development begins within any special flood hazard area. Permits are required to ensure that proposed development projects meet the requirements of the National Flood Insurance Program and this floodplain management ordinance.

(dd) *Floodplain Management* means the operation of an overall program of corrective and preventive measures for reducing flood damage, including, but not limited to, emergency preparedness plans, flood control works and floodplain management regulations.

(ee) *Floodplain Management Regulations* mean zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as a floodplain ordinance, grading ordinance or erosion control ordinance) and other applications of police power. The term describes such state or local

regulations, in any combination thereof, which provide standards for the purpose of flood damage prevention and reduction.

(ff) *Flood Control Structure* means a physical structure designed and built expressly or partially for the purpose of reducing, redirecting or guiding flood flows along a particular waterway. These specialized flood modifying works are those constructed in conformance with sound engineering standards.

(gg) *Floodproofing* means any combination of structural and/or non-structural additions, changes or adjustments to structures which reduce or eliminate flood damage to real estate, improved real property or water and sanitary facilities, structures and their contents.

(hh) *Floodway (Regulatory Floodway)* means the channel of a river or other watercourse and adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. The Colorado statewide standard for the designated height to be used for all newly studied reaches shall be one-half foot (six inches). Letters of map revision to existing floodway delineations may continue to use the floodway criteria in place at the time of the existing floodway delineation.

(ii) *Freeboard* means the vertical distance in feet above a predicted water surface elevation intended to provide a margin of safety to compensate for unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood such as debris blockage of bridge openings and the increased runoff due to urbanization of the watershed.

(jj) *Functionally Dependent Use* means a use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities but does not include long-term storage or related manufacturing facilities.

(kk) *Highest Adjacent Grade* means the highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.

(ll) *Historic Structure* means any structure that is (i) listed individually in the National Register of Historic Places (a listing maintained by the United States Department of the Interior) or preliminarily determined by the Secretary of the United States Department of the Interior as meeting the requirements for individual listing on the National Register, (ii) certified or preliminarily determined by the Secretary of the United States Department of the Interior as contributing to the historic significance of a registered historic district or a district preliminarily determined by the Secretary of the United States Department of the Interior to qualify as a historic district, (iii) individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the United States Department of the Interior, or (iv) individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either by an approved state program as determined by the Secretary of the United States Department of the Interior or directly by the Secretary of the United States Department of the Interior in states without approving programs.

(mm) *Letter of Map Revision* means FEMA's official revision of an effective flood insurance rate map or flood boundary and floodway map or both. Letters of map revision are generally based on the implementation of physical measures that affect the hydrologic or hydraulic characteristics of a flooding source and thus result in the modification of the existing regulatory floodway, the effective base flood elevations or the special flood hazard area.

(nn) *Letter of Map Revision Based on Fill* means FEMA's modification of the special flood hazard area shown on the flood insurance rate map based on the placement of fill outside the existing regulatory floodway.

(oo) *Levee* means a man-made embankment, usually earthen, designed and constructed in accordance with sound engineering practices to contain, control or divert the flow of water so as to provide protection from temporary flooding.

(pp) *Levee System* means a flood protection system which consists of a levee, or levees, and association structures, such as closure and drainage devices, which are constructed and operated in accordance with sound engineering practices.

(qq) *Lowest Floor* means the lowest floor of the lowest enclosed area (including basement). Any floor used for living purposes which includes working, storage, sleeping, cooking and eating, recreation or any

combination thereof. This includes any floor that could be converted to such a use as a basement or crawl space. The lowest floor is a determinate for the flood insurance premium for a building, home or business. An unfinished or flood resistant enclosure, usable solely for parking or 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 requirement of § 60.3 of the National Flood Insurance Program regulations.

(rr) *Manufactured Home* means a structure transportable in one 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. The term "manufactured home" does not include a "recreation vehicle."

(ss) *Manufactured Home Park or Subdivision* means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

(tt) *Mean Sea Level* means, for purposes of the National Flood Insurance Program, the North American Vertical Datum (NAVD) of 1988 or other datum, to which base flood elevations shown on a community's flood insurance rate map are referenced.

(uu) *Material Safety Data Sheet* means a form with data regarding the properties of a particular substance. An important component of product stewardship and workplace safety, it is intended to provide workers and emergency personnel with procedures for handling or working with that substance in a safe manner and includes information such as physical data (melting point, boiling point, flash point, etc.), toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment and spill-handling procedures.

(vv) *National Flood Insurance Program* means FEMA's program of flood insurance coverage and floodplain management.

(ww) *New Manufactured Home Park or Subdivision* means a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets and either final site grading or the pouring of concrete pads) is completed on or after the effective date of this Article.

(xx) *No-Rise Certification* means a record of the results of an engineering analysis conducted to determine whether a project will increase flood heights in a floodway. A No-Rise Certification must be supported by technical data and signed by a registered Colorado professional engineer. The supporting technical data should be based on the standard step-backward computer model used to develop the 100-year floodway shown on the flood insurance rate map or flood boundary and floodway map.

(yy) *Physical Map Revision* means FEMA's action whereby one or more map panels are physically revised and republished. A physical map revision is used to change flood risk zones, floodplain and/or floodway delineations, flood elevations and/or planimetric features.

(zz) *Recreational Vehicle* means a vehicle which is (i) built on a single chassis, (ii) 400 square feet or less when measured at the largest horizontal projections, (iii) designed to be self-propelled or permanently towable by a light duty truck, and (iv) designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel or seasonal use.

(aaa) *Special Flood Hazard Area* means the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year, i.e., the 100-Year floodplain.

(bbb) *Start of Construction* means the date the building permit was issued, including substantial improvements, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement or other improvements 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, any work beyond the stage of excavation or, for manufactured homes, 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 basement, footing, 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 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.

(ccc) *Structure* means a walled and roofed building, including a gas or liquid storage tank which is principally above ground, as well as a manufactured home.

(ddd) *Substantial Damage* means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damaged condition would equal or exceed 50 percent of the market value of the structure just prior to when the damage occurred.

(eee) *Substantial Improvement* means any reconstruction, rehabilitation, addition or other improvement of a structure the cost of which equals or exceeds 50 percent of the market value of the structure before start of construction of the improvement. The value of the structure shall be determined by the local jurisdiction having land use authority in the area of interest. This includes structures which have incurred substantial damage regardless of the actual repair work performed. The term does not include either (i) 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 minimum necessary conditions or (ii) any alteration of a historic structure provided that the alteration will not preclude the structure's continued designation as a historic structure.

(fff) *Threshold Planning Quantity* means a quantity designated for each chemical on the list of extremely hazardous substances that triggers notification by facilities to the State that such facilities are subject to emergency planning requirements.

(ggg) *Variance* means a grant of relief to a person from the requirement of this Article when specific enforcement would result in unnecessary hardship. A variance permits construction or development in a manner otherwise prohibited by this ordinance.

(hhh) *Violation* means the failure of a structure or other development to be fully compliant with the community's floodplain management regulations.

(iii) *Water Surface Elevation* means the height, in relation to the North American Vertical Datum (NAVD) of 1988 (or other datum, where specified), of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.

Part 2: General Provisions

Sec. 16-11-200. Lands to which this Ordinance Applies.

This ordinance shall apply to all special flood hazard areas and areas removed from the floodplain by issuance of a FEMA letter of map revision based on fill within the jurisdiction of the Town.

Sec. 16-11-210. Basis for Establishing the Special Flood Hazard Area.

The special flood hazard areas identified by FEMA in a scientific and engineering report entitled the Flood Insurance Study for Eagle County, Colorado, and Incorporated Areas, dated December 4, 2007, with accompanying flood insurance rate maps and/or flood boundary-floodway maps and any revisions thereto are hereby adopted by reference and declared to be part of this Article. These special flood hazard areas identified by the flood insurance study and attendant mapping are the minimum area of applicability of this ordinance and may be supplemented by studies designated and approved by the Town. The Floodplain Administrator shall keep a copy of the flood insurance study, digital flood insurance rate maps, flood insurance rate maps and/or flood boundary and floodway maps on file and available for public inspection.

Sec. 16-11-220. Establishment of Floodplain Development Permit.

A floodplain development permit shall be required to ensure conformance with the provisions of this ordinance.

Sec. 16-11-230 Compliance.

No structure or land shall hereafter be located, altered or have its use changed within the special flood hazard area without full compliance with the terms of this Article and other applicable regulations. Nothing herein shall prevent the Town from taking such lawful action as is necessary to prevent or remedy any violation. These regulations meet the minimum requirements set forth by the Colorado Water Conservation Board and the National Flood Insurance Program.

Sec. 16-11-240. Abrogation and Greater Restrictions.

This Article is not intended to repeal, abrogate or impair any existing easements, covenants or deed restrictions. However, where this Article and another ordinance, easement, covenant or deed restriction conflict or overlap, whichever imposes more stringent restrictions shall prevail.

Sec. 16-11-250 Interpretation.

In interpretation and application of this Article, all provisions shall be considered as minimum requirements, liberally construed in favor of the Town and its Board of Trustees and deemed neither to limit nor repeal any other powers granted under State statutes.

Sec. 16-11-260 Warning and Disclaimer of Liability.

The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. On rare occasions greater floods can and will occur and flood heights may be increased by man-made or natural causes. This Article does not imply that land outside the special flood hazard area or uses permitted within such areas will be free from flooding or flood damages. This Article shall not create liability on the part of the Town or any other official or employee

thereof for any flood damages that result from reliance on this Article or any administrative decision lawfully made hereunder

Sec. 16-11-270 Severability.

This Article and the various parts hereof are declared to be severable. Should any section of this Article be declared by the courts to be unconstitutional or invalid, such decision shall not affect the validity of the Article as a whole or any portion thereof other than the section so declared to be unconstitutional or invalid.

Part 3: Administration

Sec. 16-11-300 Designation of Floodplain Administrator.

The Town Administrator is hereby appointed as Floodplain Administrator to administer, implement and enforce the provisions of this Article and other appropriate sections of the National Flood Insurance Program regulations pertaining to floodplain management.

Sec. 16-11-310 Duties and Responsibilities of Floodplain Administrator.

Duties and responsibilities of the Floodplain Administrator shall include, but not be limited to, the following:

- (a) Maintain and hold open for public inspection all records pertaining to the provisions of this Article including the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved structures and any floodproofing certificate required by § 16-11-320.
- (b) Review, approve or deny all applications for floodplain development permits required by adoption of this Article.
- (c) Review floodplain development permit applications to determine whether a proposed building site, including the placement of manufactured homes, will be reasonably safe from flooding.
- (d) Review permits for proposed development to assure that all necessary permits have been obtained from those Federal, State or local governmental agencies from which prior approval is required.
- (e) Inspect all development at appropriate times during the period of construction to ensure compliance with all provisions of this Article, including proper elevation of the structure.
- (f) Where interpretation is needed as to the exact location of the boundaries of the special flood hazard area, the Floodplain Administrator shall make the necessary interpretation.
- (g) When base flood elevation data has not been provided in accordance with 16-11-210, the Floodplain Administrator shall obtain, review and reasonably utilize any base flood elevation data and floodway data available from a Federal, State or other source in order to administer the provisions of this Article.
- (h) For waterways with base flood elevations for which a regulatory floodway has not been designated, no new construction, substantial improvements or other development (including fill) shall be permitted within Zones A1-30 and AE on the community's flood insurance rate map, 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-half foot at any point within the Town.
- (i) Under the provisions of 44 CFR Chapter 1, Section 65.12, of the National Flood Insurance Program regulations, the Town may approve certain development in Zones A1-30, AE or AH on the Town's flood insurance rate map which increase the water surface elevation of the base flood by more than one-half foot, provided the Town first applies for a conditional flood insurance rate map revision through FEMA, fulfills the requirements for such revisions as established under the provisions of § 65.12 and receives FEMA approval.
- (j) Notify, in riverine situations, adjacent communities and the Colorado Water Conservation Board prior to any alteration or relocation of a watercourse and submit evidence of such notification to FEMA.
- (k) Ensure that the flood carrying capacity within the altered or relocated portion of any watercourse is maintained.

Sec. 16-11-320 Permit Procedure.

(a) Applications for a floodplain development permit shall be presented to the Floodplain Administrator on forms furnished by the Floodplain Administrator and may include, but not be limited to, plans in duplicate drawn to scale showing location, dimensions and elevation of proposed landscape alterations, existing and proposed structures, including the placement of manufactured homes, and the location of the foregoing in relation to special flood hazard areas. Additionally, the following information is required: (i) elevation (in relation to mean sea level) of the lowest floor (including basement) of all new and substantially improved structures; (ii) elevation in relation to mean sea level to which any nonresidential structure shall be floodproofed; (iii) a certificate from a registered Colorado professional engineer or architect that the nonresidential floodproofed structure shall meet the floodproofing criteria of § 16-11-420; and (iv) a description of the extent to which any watercourse or natural drainage will be altered or relocated as a result of proposed development.

(b) Approval or denial of a floodplain development permit by the Floodplain Administrator shall be based on all of the provisions of this Article and the following relevant factors: (i) the danger to life and property due to flooding or erosion damage; (ii) the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner; (iii) the danger that materials may be swept onto other lands to the injury of others; (iv) the compatibility of the proposed use with existing and anticipated development; (v) the safety of access to the property in times of flood for ordinary and emergency vehicles; (vi) the costs of providing governmental services during and after flood conditions including maintenance and repair of streets and bridges and public utilities and facilities such as sewer, gas, electrical and water systems; (vii) the expected heights, velocity, duration, rate of rise and sediment transport of the flood waters and the effects of wave action, if applicable, expected at the site; (viii) the necessity to the facility of a waterfront location, where applicable; (ix) the availability of alternative locations not subject to flooding or erosion damage for the proposed use; and (x) the relationship of the proposed use to the comprehensive plan for that area.

Sec. 16-11-330 Variance Procedures.

(a) The Board of Trustees shall serve as the Appeal Board for purposes of this section.

(b) The Appeal Board shall hear and render judgment on requests for variances from the requirements of this Article.

(c) The Appeal Board shall hear and render judgment on any appeal only when it is alleged there is an error in any requirement, decision or determination made by the Floodplain Administrator in the enforcement or administration of this ordinance.

(d) Any person or persons aggrieved by the decision of the Appeal Board may appeal such decision in a court of competent jurisdiction.

(e) The Floodplain Administrator shall maintain a record of all actions involving an appeal and shall report variances to FEMA upon request.

(f) Variances may be issued for the reconstruction, rehabilitation or restoration of structures listed on the National Register of Historic Places or State Inventory of Historic Places without regard to the procedures set forth in the remainder of this Article.

(g) Variances may be issued for new construction and substantial improvements 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 the relevant factors in § 16-11-320 have been fully considered.

(h) Upon consideration of the factors noted above and the intent of this Article, the Appeal Board may attach such conditions for the granting of variances as it deems necessary to further the purpose and objectives of this Article as stated in § 16-11-130.

(i) Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.

(j) Variances may be issued for 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.

(k) Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.

(l) Variances shall only be issued upon (i) showing a good and sufficient cause, (ii) a determination that failure to grant the variance would result in exceptional hardship to the applicant and (iii) a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisance, cause fraud or victimization of the public or conflict with existing local laws and ordinances.

(m) Any applicant to whom a variance is granted shall be given written notice that the structure will be permitted to be built with the lowest floor elevation below the base flood elevation and that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.

(n) Variances may be issued for new construction and substantial improvement and for other development necessary for the conduct of a functionally dependent use provided that (i) the criteria outlined in this section are met and (ii) the structure or other development is protected by methods that minimize flood damages during the base flood and create no additional threats to public safety.

Part 4: Provisions for Flood Hazard Reduction

Sec. 16-11-400 General Standards.

In all special flood hazard areas, the following provisions are required for all new construction and substantial improvements:

- (a) All new construction or substantial improvements shall be designed (or modified) and adequately anchored to prevent flotation, collapse or lateral movement of the structure resulting from hydrostatic or hydrodynamic loads, including the effects of buoyancy.
- (b) All new construction or substantial improvements shall be constructed by methods and practices that minimize flood damage.
- (c) All new construction or substantial improvements shall be constructed with materials resistant to flood damage.
- (d) All new construction or substantial improvements shall be constructed with electrical, heating, ventilation, plumbing and air conditioning equipment or 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.
- (e) All manufactured homes shall be installed using methods and practices which minimize flood damage. For the purposes of this requirement, manufactured homes must be elevated and anchored to resist 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 requirement is in addition to applicable State and local anchoring requirements for resisting wind forces.
- (f) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.
- (g) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system and discharge from the systems into flood waters.
- (h) On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.

Sec. 16-11-410 Specific Standards.

In all special flood hazard areas where base flood elevation data has been provided as set forth in this Article, the following provisions are required:

- (a) *Residential Construction:* New construction and substantial improvement of any residential structure shall have the lowest floor (including basement), electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) elevated to one foot above the base flood elevation. Upon completion of the structure, the elevation of the lowest floor, including basement, shall be certified by a registered Colorado professional engineer, architect or land surveyor. Such certification shall be submitted to the Floodplain Administrator.
- (b) *Nonresidential Construction:* With the exception of Critical Facilities, outlined in § 16-11-470, new construction and substantial improvements of any commercial, industrial or other nonresidential structure shall either have the lowest floor (including basement), electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) elevated to one foot above the base flood elevation or, together with attendant utility and sanitary facilities, be designed so that at one foot above base flood elevation the structure 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. A registered Colorado professional engineer or architect shall develop and/or review structural design, specifications and plans for the construction and shall certify that the design and methods of construction are in accordance with accepted standards of practice as outlined in this subsection. Such certification shall be maintained by the Floodplain Administrator.

(c) *Enclosures:* New construction and substantial improvements with fully enclosed areas below the lowest floor that are usable for parking of vehicles, building access or storage in an area other than a basement and which 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 either be certified by a registered Colorado professional engineer or architect or meet or exceed the following minimum criteria: (i) a minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided, (ii) the bottom of all openings shall be no higher than one foot above grade, and (iii) openings may be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.

(d) *Manufactured Homes:* All manufactured homes that are placed or substantially improved within Zones A1-30, AH and AE on the Town's flood insurance rate map on sites (i) outside of a manufactured home park or subdivision, (ii) in a new manufactured home park or subdivision, (iii) in an expansion to an existing manufactured home park or subdivision, or (iv) in an existing manufactured home park or subdivision on which a manufactured home has incurred substantial damage as a result of a flood, shall be elevated on a permanent foundation such that the lowest floor of the manufactured home, electrical, heating, ventilation, plumbing and air conditioning equipment or other service facilities (including ductwork) are elevated to one foot above the base flood elevation and be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement. All manufactured homes placed or substantially improved on sites in an existing manufactured home park or subdivision within Zones A1-30, AH and AE on the Town's flood insurance rate map that are not subject to the provisions of the above paragraph shall be elevated so that either (i) the lowest floor of the manufactured home, electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) are one foot above the base flood elevation or (ii) the manufactured home chassis is supported by reinforced piers or other foundation elements of at least equivalent strength that are no less than 36 inches in height above grade and be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement.

(e) *Recreational Vehicles.* All recreational vehicles on sites within Zones A1-30, AH and AE on the Town's flood insurance rate map shall either (i) be on site for fewer than 180 consecutive days, (ii) be fully licensed and ready for highway use or (iii) meet the permit requirements of § 16-11-320 and the elevation and anchoring requirements for manufactured homes in paragraph (d) of this section. 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.

Sec. 16-11-420 Standards for Areas of Shallow Flooding.

Located within the special flood hazard area established in § 16-11-210 are areas designated as shallow flooding. These areas have special flood hazards associated with base flood depths of 1 to 3 feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow; therefore, the following provisions apply:

(a) *Residential Construction:* All new construction and substantial improvement of residential structures must have the lowest floor (including basement), electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) elevated above the highest adjacent grade at least one foot above the depth number specified in feet on the Town's flood insurance rate map and at least three feet if no depth number is specified. Upon completion of the structure, the elevation of the lowest floor, including basement, shall be certified by a registered Colorado professional engineer, architect or land surveyor. Such certification shall be submitted to the Floodplain Administrator.

(b) *Nonresidential Construction:* With the exception of critical facilities, outlined in § 16-11-470, all new construction and substantial improvement of nonresidential structures must have the lowest floor (including basement), electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) elevated above the highest adjacent grade at least one foot above the depth number specified in feet on the Town's flood insurance rate map and at least three feet if no depth number is specified or together with attendant utility and sanitary facilities, be designed so that the structure is watertight to at least one foot above the base flood level with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads or

effects of buoyancy. A registered Colorado professional engineer or architect shall submit a certification to the Floodplain Administrator that the standards of this Section are satisfied. Within Zones AH or AO, adequate drainage paths around structures on slopes are required to guide flood waters around and away from proposed structures.

Sec. 16-11-430 Floodways.

Floodways are administrative limits and tools used to regulate existing and future floodplain development. The State of Colorado has adopted floodway standards that are more stringent than the FEMA minimum standard. Located within the special flood hazard area established by § 16-11-210 are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of floodwaters which carry debris, potential projectiles and erosion potential, the following provisions shall apply:

(a) Encroachments are prohibited, including fill, new construction, substantial improvements and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed by a licensed Colorado professional engineer and in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels within Town during the occurrence of base flood discharge.

(b) If subsection (a) is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Part 4 of this Article.

(c) Under the provisions of 44 CFR Chapter 1, Section 65.12, of the National Flood Insurance Program regulations, the Town may permit encroachments within the adopted regulatory floodway that would result in an increase in Base Flood Elevation, provided that the Town first applies for a conditional letter of map revision and floodway revisions through FEMA.

Sec. 16-11-440 Alteration of a Watercourse.

For all proposed developments that alter a watercourse within a special flood hazard area, the following standards apply:

(a) Channelization and flow diversion projects shall appropriately consider issues of sediment transport, erosion, deposition and channel migration and properly mitigate potential problems through the project as well as upstream and downstream of any improvement activity. A detailed analysis of sediment transport and overall channel stability should be considered when appropriate to assist in determining the most appropriate design.

(b) Channelization and flow diversion projects shall evaluate the residual 100-year floodplain.

(c) Any channelization or other stream alteration activity proposed by a project proponent must be evaluated for its impact on the regulatory floodplain and be in compliance with all applicable Federal, State and local floodplain rules, regulations and ordinances.

(d) Any stream alteration activity shall be designed and sealed by a registered Colorado professional engineer or certified professional hydrologist.

(e) All activities within the regulatory floodplain shall meet all applicable Federal, State and Town floodplain requirements and regulations.

(f) Within the regulatory floodway, stream alteration activities shall not be constructed unless a project proponent demonstrates through a floodway analysis and report, sealed by a registered Colorado professional engineer, that there is not more than a 0.00-foot rise in the proposed-conditions-compared-to-existing-conditions floodway resulting from the project, otherwise known as a no-rise certification, unless the community first applies for a conditional letter of map revision and floodway revision in accordance with § 16-11-430.

(g) Maintenance shall be required for any altered or relocated portions of watercourses so that the flood-carrying capacity is not diminished.

Sec. 16-11-450 Properties Removed from the Floodplain by Fill.

A floodplain development permit shall not be issued for the construction of a new structure or addition to an existing structure on a property removed from the floodplain by the issuance of a FEMA letter of map revision based on fill unless such new structure or addition complies with the following:

- (a) *Residential Construction:* The lowest floor (including basement), electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) must be elevated to one foot above the base flood elevation that existed prior to the placement of fill.
- (b) *Nonresidential Construction:* The lowest floor (including basement), electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities (including ductwork) must be elevated to one foot above the base flood elevation that existed prior to the placement of fill or, together with attendant utility and sanitary facilities, be designed so that the structure or addition is watertight to at least one foot above the base flood level that existed prior to the placement of fill with walls substantially impermeable to the passage of water and with structural components having the capability of resisting hydrostatic and hydrodynamic loads or effects of buoyancy.

Sec. 16-11-460 Standards for Subdivision Proposals.

- (a) All subdivision proposals, including the placement of manufactured home parks and subdivisions, shall be reasonably safe from flooding. If a subdivision or other development proposal is in a flood-prone area, the proposal shall minimize flood damage.
- (b) All proposals for the development of subdivisions, including the placement of manufactured home parks and subdivisions, shall meet floodplain development permit requirements of § 16-11-220 and the provisions of Part 4 of this Article.
- (c) Base flood elevation data shall be generated for subdivision proposals and other proposed development, including the placement of manufactured home parks and subdivisions, which is greater than 50 lots or 5 acres, whichever is lesser, if not otherwise provided pursuant to § 16-11-210 or § 16-11-310 of this Article.
- (d) All subdivision proposals, including the placement of manufactured home parks and subdivisions, shall have adequate drainage provided to reduce exposure to flood hazards.
- (e) All subdivision proposals, including the placement of manufactured home parks and subdivisions, shall have public utilities and facilities such as sewer, gas, electrical and water systems located and constructed to minimize or eliminate flood damage.

Sec. 16-11-470 Standards for Critical Facilities.

A critical facility is a structure or related infrastructure, but not the land on which it is situated, as specified in Rule 6 of the Rules and Regulations for Regulatory Floodplains in Colorado, that if flooded may result in significant hazards to public health and safety or interrupt essential services and operations for a community at any time before, during or after a flood.

- (a) Classification of critical facilities. It is the responsibility of the Town to identify and confirm that specific structures within its limits meet the criteria that follow. Critical facilities are classified under the following categories.
 - (i) Essential services facilities include public safety, emergency response, emergency medical, designated emergency shelters, communications, public utility plant facilities and transportation lifelines. The facilities consist of public safety (police stations, fire and rescue stations, emergency vehicle and equipment storage and emergency operations centers); emergency medical (hospitals, ambulance service centers, urgent care centers having emergency treatment functions and non-ambulatory surgical structures but excluding clinics, doctor's offices and non-urgent care medical structures that do not provide these functions); designated emergency shelters; communications (main

hubs for telephones, broadcasting equipment for cable systems, satellite dish systems, cellular systems, television, radio and other emergency warning systems but excluding towers, poles, lines, cables and conduits); public utility plant facilities for generation and distribution (hubs, treatment plants, substations and pumping stations for water, power and gas but not including towers, poles, power lines, buried pipelines, transmission lines, distribution lines and services lines; and air transportation lifelines (airports, helicopter pads and structures serving emergency functions and associated infrastructure). Specific exemptions to this category include wastewater treatment plants, non-potable water treatment and distribution systems and hydroelectric power generating plants and related appurtenances. Public utility plant facilities may be exempted if it can be demonstrated to the satisfaction of the Town that the facility is an element of a redundant system for which service will not be interrupted during a flood. At a minimum, it shall be demonstrated that redundant facilities are available (either owned by the same utility or available through an intergovernmental agreement or other contract) and connected, the alternative facilities are located outside of the 100-year floodplain or are compliant with the provisions of this Article and an operations plan is in effect that states how redundant systems will provide service to the affected area in the event of a flood. Evidence of ongoing redundancy shall be provided to the Town on an as-needed basis upon request.

(ii) Hazardous materials facilities include facilities that produce or store highly volatile, flammable, explosive, toxic and/or water-reactive materials. These facilities may include chemical and pharmaceutical plants; laboratories containing highly volatile, flammable, explosive, toxic and/or water reactive materials; refineries; hazardous waste storage and disposal sites; and above ground gasoline or propane storage or sales centers. Facilities shall be determined to be critical facilities if they produce or store materials in excess of threshold limits. If the owner of a facility is required by the Occupational Safety and Health Administration to keep a material safety data sheet on file for any chemicals stored or used in the work place and the chemical is stored in quantities equal to or greater than the threshold planning quantity for that chemical, then that facility shall be considered a critical facility. The threshold planning quantity for these chemicals is: either 500 pounds or the threshold planning quantity listed (whichever is lower) for the 356 chemicals listed under 40 CFR § 302 (2010), also known as the extremely hazardous substances; or 10,000 pounds for any other chemical. Specific exemptions from this category include: finished consumer products within retail centers and households containing hazardous materials intended for household use and agricultural products intended for agricultural use; buildings and other structures containing hazardous materials for which it can be demonstrated to the satisfaction of the Town by hazard assessment and certification by a qualified professional that a release of the subject hazardous material does not pose a major threat to the public; and pharmaceutical sales, use, storage and distribution centers that do not manufacture pharmaceutical products. These exemptions shall not apply to buildings or other structures that also function as critical facilities under another category outlined in this Section.

(iii) At-risk population facilities consist of elder care (nursing homes); congregate care serving 12 or more individuals (day care and assisted living); and public and private schools and before-school and after-school care serving 12 or more children.

(iv) Facilities vital to restoring normal services including government operations consisting of essential government operations (public records, courts, jails, building permitting and inspection services, community administrative and management and maintenance and equipment centers) and essential structures for public colleges and universities (dormitories, offices and classrooms only). These facilities may be exempted if it is demonstrated to the Town that the facility is an element of a redundant system for which service will not be interrupted during a flood. At a minimum, it shall be demonstrated that redundant facilities are available (either owned by the same entity or available through an inter governmental agreement or other contract), the alternative facilities are either located outside the 100-year floodplain or are compliant with this Article and an operations plan is in effect that states how redundant facilities will provide service to the affected area in the event of a flood. Evidence of ongoing redundancy shall be provided to the Town on an as-needed basis upon request.

(b) Protection of critical facilities. All new and substantially improved critical facilities and new additions to critical facilities located within the special flood hazard area shall be regulated to a higher standard than structures not determined to be critical facilities. For the purposes of this Article, protection shall include one of the following: (i) location outside the special flood hazard area or (ii) elevation of the lowest floor or

flood proofing of the structure, together with attendant utility and sanitary facilities, to at least two feet above the base flood elevation.

(c) Ingress and egress for critical facilities. New critical facilities shall, when practicable as determined by the Town, have continuous non-inundated access (ingress and egress for evacuation and emergency services) during a 100-year flood event.