

## **Division 1- General Provisions**

### **Sec. 18-15-10. - STATUTORY AUTHORIZATION**

The Legislature of the State of Colorado has, in Ordinance 20 of Title 29 C.R.S., delegated the responsibility of local governmental units to adopt regulations designed to minimize flood losses. Therefore, the Town of Lyons Board of Trustees does hereby adopt the following floodplain management regulations contained in the ordinance:

### **Sec 18-15-20. - FINDINGS OF FACT**

- (A) The flood hazard areas of the Town of Lyons are 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) These flood losses are 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.
- (C) The federally declared disaster caused by the flood of September 2013 significantly impacted the Town of Lyons, causing extensive damage to residences and infrastructure. This event underscored the necessity for enhanced floodplain regulation. The damage was not limited to private property, as public property also suffered, largely due to the effects of private improvements. Of particular concern is the ability to provide emergency protective services in areas inundated by the floodway and the structures located within the floodway.

### **Sec. 18-15-30. - STATEMENT OF PURPOSE**

It is the purpose of this ordinance 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:

1. Protect human life and health.
2. Minimize expenditure of public money for costly flood control projects.
3. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the public.
4. Minimize prolonged business interruptions.
5. 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.
6. 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.
7. Ensure that potential buyers are notified that the property is in a flood hazard area.
8. Ensure the best available data is used in making development decisions.

## Sec. 18-15-40. - METHODS OF REDUCING FLOOD LOSSES

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

1. 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.
2. Require that uses vulnerable to floods, including facilities that serve such uses, be protected against flood damage at the time of initial construction.
3. Control the alteration of natural floodplains, stream channels, and natural protective barriers, which are involved in accommodating flood waters.
4. Control filling, grading, dredging, and other development which may increase flood damage.
5. Prevent or regulate the construction of flood barriers that will unnaturally divert flood waters or that may increase flood hazards to other lands.

## Sec. 18-15-50. - DEFINITIONS

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

- **100-YEAR FLOOD** - A flood having a recurrence interval that has a one-percent chance of being equaled or exceeded during any given year (1-percent-annual-chance flood). The terms "one-hundred-year flood" and "one percent chance flood" are synonymous with the term "100-year flood." The term does not imply that the flood will necessarily happen once every 100 years.
- **100-YEAR FLOODPLAIN** - The area of land susceptible to being inundated as a result of the occurrence of a one-hundred-year flood.
- **500-YEAR FLOOD** - 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-annual-flood). The term does not imply that the flood will necessarily happen once every five hundred years.
- **500-YEAR FLOODPLAIN** - The area of land susceptible to being inundated as a result of the occurrence of a five-hundred-year flood.
- **ADDITION** - Any activity that expands the enclosed footprint or increases the square footage of an existing structure.
- **ALLUVIAL FAN FLOODING** - 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 mainstream. 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.
- **APPEAL** - a request for review by the Board of Trustees when it is alleged that there is an error in any requirement, decision or determination made by the Floodplain Administrator in the enforcement or administration of this Article. The process provided in this Article for appeals from decisions made by the Floodplain Administrator shall be used in lieu of the appeal process set forth in Article 1 of this Chapter for appeals from decisions made by the Building Inspector.
- **ARCHITECT** - a qualified, licensed, professional Colorado architect in good standing.

- **AREA OF SHALLOW FLOODING** - A designated Zone AO or AH on a community's Flood Insurance Rate Map (FIRM) with a one percent chance 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.
- **BASE FLOOD** – The flood that has a one percent chance of being equaled or exceeded in any given year (also known as a 100-year flood). This term is used in the National Flood Insurance Program (NFIP) to indicate the minimum level of flooding to be used by a community in its floodplain management regulations.
- **BASE FLOOD ELEVATION (BFE)** - 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, & 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.
- **BASEMENT—Any area of a building with its floor subgrade** (below ground level) on all sides.
- **BEST AVAILABLE DATA** - The latest FEMA “Flood Insurance Rate Map” (FIRM) and “Flood Insurance Study” (FIS).
- **CHANNEL** - The physical confine of a stream or waterway consisting of a bed and stream banks existing in a variety of geometries.
- **CHANNELIZATION** - The artificial creation, enlargement, or realignment of a stream channel.
- **CODE OF FEDERAL REGULATIONS (CFR)** - The codification of the general and permanent Rules published in the Federal Register by the executive departments and agencies of the Federal Government. It is divided into 50 titles that represent broad areas subject to Federal regulation.
- **COMMUNITY** - 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 (Town of Lyons), unincorporated areas in the counties, Indian tribes, and drainage and flood control districts.
- **CONDITIONAL LETTER OF MAP REVISION (CLOMR)** - 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 the modification of the existing regulatory floodplain.
- **CRITICAL FACILITY** – A structure or related infrastructure, but not the land on which it is situated, as specified in Sec. 18-15-380, 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.
- **DEVELOPMENT** - Any man-made change in improved and unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials.
- **DFIRM DATABASE** - Database (usually spreadsheets containing data and analyses that accompany DFIRMs). The FEMA Mapping Specifications and Guidelines outline requirements for the development and maintenance of DFIRM databases.

- *DIGITAL FLOOD INSURANCE RATE MAP (DFIRM)* - FEMA digital floodplain map. These digital maps serve as "regulatory floodplain maps" for insurance and floodplain management purposes.
- *ELEVATED BUILDING* - A non-basement building:
  1. 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
  2. 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 case of Zones A1-30, AE, A, A99, AO, AH, B, C, X, and D, "elevated building" also includes a building elevated by means of fill or solid foundation perimeter walls with openings sufficient to facilitate the unimpeded movement of flood waters.
- *ENGINEER* - means a qualified, licensed professional Colorado Engineer in good standing.
- *EXISTING MANUFACTURED HOME PARK OR SUBDIVISION* - 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 before the effective date of the floodplain management regulations adopted by a community.
- *EXPANSION TO AN EXISTING MANUFACTURED HOME PARK OR SUBDIVISION* - 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).
- *FEDERAL REGISTER* - The official daily publication of rules, proposed rules, and notices of federal agencies and organizations, as well as executive orders and other presidential documents.
- *FEMA* - Federal Emergency Management Agency, the agency responsible for administering the National Flood Insurance Program.
- *FLOOD CONTROL STRUCTURE* - 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.
- *FLOOD OR FLOODING* - A general and temporary condition of partial or complete inundation of normally dry land areas from:
  - A. The overflow of water from channels and reservoir spillways.
  - B. The unusual and rapid accumulation or runoff of surface waters from any source.
  - C. Mudslides or 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).
- *FLOOD INSURANCE RATE MAP (FIRM)* – An official map of a community on which the Federal Emergency Management Agency has delineated both the Special Flood Hazard Areas and the risk premium zones applicable to the community.

- *FLOOD INSURANCE STUDY (FIS)* - The official report provided by the Federal Emergency Management Agency. 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.
- *FLOODPLAIN OR FLOOD-PRONE AREA* - 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.
- *FLOODPLAIN ADMINISTRATOR* – The Town official designated by title to administer and enforce the floodplain management regulations.
- *FLOODPLAIN DEVELOPMENT PERMIT* – A permit required before construction or development begins within any Special Flood Hazard Area (SFHA). If FEMA has not defined the SFHA within a community, the Town shall require permits for all proposed construction or other development in the community including the placement of manufactured homes, so that it may determine whether such construction or other development is proposed within flood-prone areas. Permits are required to ensure that proposed development projects meet the requirements of the NFIP and this floodplain management ordinance.
- *FLOODPLAIN MANAGEMENT* - 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.
- *FLOODPLAIN MANAGEMENT REGULATIONS* - Zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as a floodplain ordinance, grading ordinance, and 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.
- *FLOOD CONTROL STRUCTURE* - 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.
- *FLOODPROOFING* - Any combination of structural and/or non-structural additions, changes, or adjustments to structures which reduce or eliminate flood damage to real estate or improved real property, water and sanitary facilities, structures and their contents.
- *FLOODWAY (REGULATORY FLOODWAY)* - 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.
- *FREEBOARD* - 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.
- *FUNCTIONALLY DEPENDENT USE* - 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.

- **HIGHEST ADJACENT GRADE** – The highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.
- **HISTORIC STRUCTURE** - Any structure that is:
  - A. Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register.
  - B. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district.
  - C. Individually listed on a state inventory of historic places in states with historic preservation programs that have been approved by the Secretary of Interior; or
  - D. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either:
    - 1. By an approved state program as determined by the Secretary of the Interior or,
    - 2. Directly by the Secretary of the Interior in states without approved programs.
- **LETTER OF MAP REVISION (LOMR)** - FEMA's official revision of an effective Flood Insurance Rate Map (FIRM), or Flood Boundary and Floodway Map (FBFM), or both. LOMRs 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 (BFEs), or the Special Flood Hazard Area (SFHA).
- **LETTER OF MAP REVISION BASED ON FILL (LOMR-F)** – FEMA's modification of the Special Flood Hazard Area (SFHA) shown on the Flood Insurance Rate Map (FIRM) based on the placement of fill outside the existing regulatory floodway.
- **LEVEE** – 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. For a levee structure to be reflected on the FEMA FIRMs as providing flood protection, the levee structure must meet the requirements set forth in 44 CFR 65.10.
- **LEVEE SYSTEM**—A flood protection system that consists of a levee or levees and associated structures, such as closure and drainage devices, constructed and operated in accordance with sound engineering practices.
- **LOWEST FLOOR** - The lowest floor of the lowest enclosed area (including basement). Any floor used for living purposes which includes working, storage, sleeping, cooking and eating, or recreation or any combination thereof. This includes any floor that could be converted to such a use such as a basement or crawl space. The lowest floor is a determinant of 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 Section 60.3 of the National Flood Insurance Program regulations.
- **MANUFACTURED HOME** - 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 "recreational vehicle".
- **MANUFACTURED HOME PARK OR SUBDIVISION** - A parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

- **MEAN SEA LEVEL** - 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.
- **MATERIAL SAFETY DATA SHEET (MSDS)** – 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.
- **NATIONAL FLOOD INSURANCE PROGRAM (NFIP)** – FEMA's program of flood insurance coverage and floodplain management administered in conjunction with the Robert T. Stafford Relief and Emergency Assistance Act. The NFIP has applicable Federal regulations promulgated in Title 44 of the Code of Federal Regulations. The U.S. Congress established the NFIP in 1968 with the passage of the National Flood Insurance Act of 1968.
- **NEW CONSTRUCTION**—The construction of a new structure (including the placement of a mobile home) or facility or the replacement of a structure or facility that has been totally destroyed. (This is a much different definition than what we currently have).
- **NEW MANUFACTURED HOME PARK OR SUBDIVISION** - 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 floodplain management regulations adopted by a community.
- **NO-RISE CERTIFICATION** – 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-backwater computer model used to develop the 100-year floodway shown on the Flood Insurance Rate Map (FIRM) or Flood Boundary and Floodway Map (FBFM).
- **PHYSICAL MAP REVISION (PMR)** - FEMA's action whereby one or more map panels are physically revised and republished. A PMR is used to change flood risk zones, floodplain and/or floodway delineations, flood elevations, and/or planimetric features.
- **PLAN** - Documents drawn to scale and prepared by an engineer, architect, and surveyor showing the nature, location, dimensions, elevations, and other information for the lot, building, landscape, surface improvements, contours and spot elevations, utility mains and services along with profiles, structures and other physical features of a proposed development, re-development, structure or other improvement placed in the special flood hazard area.
- **RECREATIONAL VEHICLE** - means a vehicle which is:
  - A. Built on a single chassis.
  - B. 400 square feet or less when measured at the largest horizontal projections.
  - C. Designed to be self-propelled or permanently towable by a light-duty truck; and
  - D. Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.
- **REASONABLE USE** - the use of the data would not be detrimental to a proposed development or to the community's standing within the NFIP. Reasonable use allows the community to use preliminary information in cases where it is more restrictive [i.e., where there are discharges, floodplain boundaries, or increasing Base Flood Elevations (BFEs)] when compared to the current effective information and not when discharges or BFEs are decreasing when compared to the current effective information.

- **SPECIAL FLOOD HAZARD AREA** – 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.
- **START OF CONSTRUCTION** - The date the building permit was issued, including substantial improvements, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation, or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading, and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for basement, footings, piers or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of 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.
- **STRUCTURE** - A walled and roofed building, including a gas or liquid storage tank, which is principally above ground, as well as a manufactured home, deck, steps, or carport.
- **SUBSTANTIAL DAMAGE** - 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.
- **SUBSTANTIAL IMPROVEMENT** - 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 the "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 that have incurred "Substantial Damage" regardless of the actual repair work performed. The term does not, however, include either:
  - A. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications that have been identified by the local code enforcement official and which are the minimum necessary conditions or
  - B. Any alteration of a "Historic Structure" provided that the alteration will not preclude the structure's continued designation as a "Historic Structure."
- **THRESHOLD PLANNING QUANTITY (TPQ)** – 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.
- **VARIANCE** - A grant of relief to a person from the requirement of this ordinance when specific enforcement would result in unnecessary hardship. A variance, therefore, permits construction or development in a manner otherwise prohibited by this ordinance. (For full requirements see Section 60.6 of the National Flood Insurance Program regulations).
- **VIOLATION** - The failure of a structure or other development to be fully compliant with the Town of Lyons' floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required in 44 CFR Section 60.3(b)(5), (c)(4), (c)(10), (d)(3), (e)(2), (e)(4), or (e)(5) is presumed to be in violation until such time as that documentation is provided.
- **WATER SURFACE ELEVATION** - 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.



#### Sec. 18-15-60. - LANDS TO WHICH REGULATIONS APPLY

The ordinance shall apply to all Special Flood Hazard Areas and areas removed from the floodplain by the issuance of a FEMA letter of map revision based on fill (LOMR-F) within the jurisdiction of the Town of Lyons, Colorado.

#### Sec. 18-15-70. - BASIS FOR ESTABLISHING THE SPECIAL FLOOD HAZARD AREA

The Special Flood Hazard Areas identified by the Federal Emergency Management Agency in a scientific and engineering report entitled, "The Flood Insurance Study for Boulder County, Colorado and Incorporated Areas" dated October 24, 2024, with accompanying Flood Insurance Rate Maps and/or Flood Boundary- Floodway Maps (FIRM and/or FBFM) and any revisions thereto are hereby adopted by reference and declared to be a part of this ordinance. These Special Flood Hazard Areas identified by the FIS and attendant mapping are the minimum area of applicability of this ordinance and may be supplemented by studies designated and approved by the Town of Lyons. The Floodplain Administrator shall keep a copy of the Flood Insurance Study (FIS), DFIRMs, FIRMs and/or FBFMs on file and available for public inspection.

#### Sec. 18-15-80. - ESTABLISHMENT OF FLOODPLAIN DEVELOPMENT PERMIT

A Floodplain Development Permit shall be required to ensure conformance with the provisions of this ordinance. The Floodplain Development is a form provided by the Town of Lyons and is amended periodically as codes and regulations change. Landowners, builders, and developers shall engage the assistance of an engineer and architect to direct or supervise floodplain projects within the regulatory floodplain. Projects within the regulatory floodplain shall be certified and sealed by the engineer and architect.

#### Sec. 18-15-90. - 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 ordinance and other applicable regulations. Nothing herein shall prevent the Board of Trustees from taking such lawful action as is necessary to prevent or remedy any violation. These regulations meet the minimum requirements as set forth by the Colorado Water Conservation Board and the National Flood Insurance Program.

#### Sec 18-15-100. - ABROGATION AND GREATER RESTRICTIONS

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

#### Sec. 18-15-110. - INTERPRETATION

In the interpretation and application of this ordinance, all provisions shall be:

1. Considered as minimum requirements.
2. Liberally construed in favor of the governing body; and
3. Deemed neither to limit nor repeal any other powers granted under State statutes.

#### Sec. 18-15-120. - 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. However, on rare occasions, greater floods can and will occur, and flood heights may be increased by man-made or natural causes.

This ordinance does not imply that land outside the Special Flood Hazard Area or uses permitted within such areas will be free from flooding or flood damage. This ordinance shall not create liability on the part of the Town or any official or employee thereof for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made thereunder.

#### Sec. 18-15-130. - SEVERABILITY

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

### **Division 2 - ADMINISTRATION**

#### Sec 18-15-210. - DESIGNATION OF THE FLOODPLAIN ADMINISTRATOR

The Town Administrator is hereby appointed as Floodplain Administrator to administer, implement, and enforce the provisions of this ordinance and other appropriate sections of 44 CFR (National Flood Insurance Program Regulations) pertaining to floodplain management.

#### Sec. 18-15-220. - DUTIES & RESPONSIBILITIES OF THE FLOODPLAIN ADMINISTRATOR

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

1. Maintain and hold open for public inspection all records pertaining to the provisions of this ordinance, 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 Sec. 18-15-230.
2. Review, approve, or deny all applications for Floodplain Development Permits required by the adoption of this ordinance.
3. Review Floodplain Development Permit applications to determine whether a proposed building site, including the placement of manufactured homes, will be reasonably safe from flooding.
4. Review permits for proposed development to assure that all necessary permits have been obtained from those Federal, State, or local governmental agencies (including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334) from which prior approval is required.
5. Inspect all development at appropriate times during the period of construction to ensure compliance with all provisions of this ordinance, including proper elevation of the structure.

6. Where interpretation is needed as to the exact location of the boundaries of the Special Flood Hazard Area (for example, where there appears to be a conflict between a mapped boundary and actual field conditions) the Floodplain Administrator shall make the necessary interpretation.
7. When Base Flood Elevation data has not been provided in accordance with Sec. 18-15-70, 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.
8. 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 FIRM unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one-half foot at any point within the community.
9. Under the provisions of 44 CFR Chapter 1, Section 65.12, of the National Flood Insurance Program regulations, a community may approve certain development in Zones A1-30, AE, AH, on the community's FIRM which increases the water surface elevation of the base flood by more than one-half foot, provided that the community first applies for a conditional FIRM revision through FEMA (Conditional Letter of Map Revision), fulfills the requirements for such revisions as established under the provisions of Section 65.12 and receives FEMA approval.
10. Notify, in riverine situations, adjacent communities and the State Coordinating Agency, which is the Colorado Water Conservation Board, prior to any alteration or relocation of a watercourse, and submit evidence of such notification to FEMA.
11. Ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained.

#### Sec. 18-15-230 - PERMIT PROCEDURES

Application for a Floodplain Development Permit shall be presented to the Floodplain Administrator on forms furnished by the town and may include, but not be limited to, plans in duplicate drawn to scale showing the 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 Area. This information must be submitted to on-site plans, landscape plans, building plans, and other reports and documents prepared by engineers, surveyors, and architects. It must also include actual property dimensions and elevations matched to the town's floodplain datum. Additionally, the following information is required:

1. Elevation (in relation to mean sea level) of the lowest floor (including basement) of all new and substantially improved structures.
2. Elevation in relation to the mean sea level to which any nonresidential structure shall be floodproofed.
3. A certificate from a registered Colorado Professional Engineer or architect that the nonresidential floodproofed structure shall meet the floodproofing criteria of 18-15-320.
4. Description of the extent to which any watercourse or natural drainage will be altered or relocated as a result of proposed development.
5. Maintain a record of all such information in accordance with Sec. 18-15-220.

Approval or denial of a Floodplain Development Permit by the Floodplain Administrator shall be based on all the provisions of this ordinance and the following relevant factors:

1. The danger to life and property due to flooding or erosion damage.
2. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.
3. The danger that materials may be swept onto other lands to the injury of others.
4. The compatibility of the proposed use with existing and anticipated development.
5. The safety of access to the property in times of flood for ordinary and emergency vehicles.
6. 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.
7. 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.
8. The necessity of the facility of a waterfront location, where applicable.
9. The availability of alternative locations, not subject to flooding or erosion damage, for the proposed use.
10. The relationship of the proposed use to the comprehensive plan for that area.

#### Sec. 18-15-240 - VARIANCE PROCEDURES

- A. The Board of Adjustments shall hear and render judgment on requests for variances from the requirements of this ordinance.
- B. The Board of Adjustments shall hear and render judgment on an 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.
- C. Any person or persons aggrieved by the decision of the Board of Adjustments may appeal such decision in the courts of competent jurisdiction.
- D. The Floodplain Administrator shall maintain a record of all actions involving an appeal and shall report variances to the Federal Emergency Management Agency upon request.
- E. Variances may be issued for the reconstruction, rehabilitation, or restoration of structures listed on the National Register of Historic Places or the State Inventory of Historic Places without regard to the procedures set forth in the remainder of this ordinance.
- F. 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 Sec. 18-15-230 have been fully considered. As the lot size increases beyond one-half acre, the technical justification required for issuing the variance increases.
- G. Upon consideration of the factors noted above and the intent of this ordinance, the Board of Adjustments may attach such conditions to the granting of variances as it deems necessary to further the purpose and objectives of this ordinance as stated in Sec. 18-15-30. Variances shall not be issued within any designated floodway if any increase in flood levels during the base flood discharge would result.
- H. Variances may be issued for the repair or rehabilitation of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure, and the variance is the minimum necessary to preserve the historic character and design of the structure.

- I. Prerequisites for granting variances:
  - a. Variances shall only be issued upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief.
  - b. 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 nuisances, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
  - c. 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.
- J. Variances may be issued by a community for new construction and substantial improvements and for other development necessary for the conduct of a Functionally Dependent Use provided that:
  - a. The criteria outlined in Sec. 18-15-240 A through H are met, and
  - b. 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.

#### Sec. 18-50-250. - PENALTIES FOR NONCOMPLIANCE

No structure or land shall hereafter be constructed, located, extended, converted, or altered without full compliance with the terms of this ordinance and other applicable regulations. Violation of the provisions of this ordinance by failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with conditions) shall constitute a misdemeanor.

Any person who violates this ordinance or fails to comply with any of its requirements shall, upon conviction thereof, be fined or imprisoned as provided in Sec. 1-4-20 of this Code. Nothing herein contained shall prevent the Town of Lyons from taking such other lawful action as is necessary to prevent or remedy any violation.

#### Sec. 18-15-260. - APPEALS.

- a. The Board of Trustees shall hear and render judgment on an appeal when it is alleged that there is an error in any requirement, decision, or determination made by the Floodplain Administrator in the enforcement or administration of this Article.
- b. The Board of Trustees may reverse the decision or determination of the Floodplain Administrator only upon a finding of good cause.
- c. When an appeal of a determination of substantial damage or non-substantial damage, and the appealing party is relying upon the written estimate of a licensed contractor that contradicts the finding of substantial or non-substantial damage, the Board of Trustees shall delegate the matter to the Town Administrator for further proceedings.

- d. Any person aggrieved by the decision of the Town Administrator pursuant to this Section may appeal such a decision to the Board of Trustees. Any person aggrieved by the decision of the Board of Trustees may appeal such decision to the Boulder County District Court pursuant to Colorado Rules of Civil Procedure Rule 106(a)(4).
- e. The Floodplain Administrator shall maintain a record of all actions involving an appeal.
- f. The right of appeal provided herein shall be a separate remedy from the variance process described in Section 18-15-240 above.

### **Division 3 – Provisions for Flood Hazard Reduction**

#### **Sec. 18-15-310. – General Standards**

In all Special Flood Hazard Areas, the following provisions are required for all new construction and substantial improvements:

1. 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 hydrodynamic and hydrostatic loads, including the effects of buoyancy.
2. All new constructions or substantial improvements shall be constructed by methods and practices that minimize flood damage.
3. All new construction or substantial improvements shall be constructed with materials resistant to flood damage.
4. All new construction or substantial improvements shall be constructed 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.
5. All manufactured homes shall be installed using methods and practices that 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, the 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.
6. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.
7. 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; and,
8. On-site waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.

#### **Sec 18-15-320. - SPECIFIC STANDARDS**

In all Special Flood Hazard Areas where base flood elevation data has been provided as set forth in Sec. 18-15-70, 18-15-220 #7, and Sec. 18-15-370 the following provisions are required:

1. **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 two feet above the base flood elevation. Upon completion of the structure, the elevation of the lowest floor, including the basement, shall be certified by a registered Colorado Professional Engineer, architect, or land surveyor. Such certification shall be submitted to the Floodplain Administrator.

2. **NONRESIDENTIAL CONSTRUCTION:** With the exception of Critical Facilities, outlined in Sec. 18-15-380, 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 two feet above the base flood elevation or, together with attendant utility and sanitary facilities, be designed so that at two feet above the 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, as proposed in Sec. 18-15-230.

3. **ENCLOSURES:** New construction and substantial improvements, with fully enclosed areas below the lowest floor that are usable solely 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:

- a. A minimum of two openings with a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.
  - b. The bottom of all openings shall be no higher than two feet above grade.
  - c. Openings may be equipped with screens, louvers, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
4. **MANUFACTURED HOMES:** All manufactured homes that are placed or substantially improved within Zones A1-30, AH, and AE on the community's FIRM 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 manufactured home has incurred "substantial damage" as a result of a flood, be elevated on a permanent foundation such that the lowest floor of the manufactured home, electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities (including ductwork), are elevated to two feet 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 community's FIRM that are not subject to the provisions of the above paragraph shall be elevated so that either:

- a. The lowest floor of the manufactured home, electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities (including ductwork) are two feet above the base flood elevation, or
- b. 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.

5. **RECREATIONAL VEHICLES:** All recreational vehicles placed on sites within Zones A1-30, AH, and AE on the community's FIRM either:

- a. Be on the site for fewer than 180 consecutive days,
- b. Be fully licensed and ready for highway use, or
- c. Meet the permit requirements of Sec. 18-15-230 and the elevation and anchoring requirements for "manufactured homes" in paragraph (4) 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.

6. **PRIOR APPROVED ACTIVITIES:** Any activity for which a Floodplain Development Permit was issued by the Town of Lyons or a CLOMR was issued by FEMA prior to October 24, 2024, may be completed according to the standards in place at the time of the permit or CLOMR issuance and will not be considered in violation of this ordinance if it meets such standards.

**Sec. 18-15-330. - STANDARDS FOR AREAS OF SHALLOW FLOODING (AO/AH ZONES)**

Located within the Special Flood Hazard Area established in Sec. 18-15-70 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 and 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:

1. **RESIDENTIAL CONSTRUCTION:** All new construction and Substantial Improvements 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 two feet above the depth number specified in feet on the community's FIRM (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.
2. **NONRESIDENTIAL CONSTRUCTION:** With the exception of Critical Facilities, outlined in Sec. 18-15-380, all new construction and Substantial Improvements of non-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 two feet above



the depth number specified in feet on the community's FIRM (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 two feet 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 of effects of buoyancy. A registered Colorado Professional Engineer or Architect shall submit a certification to the Floodplain Administrator that the standards of this Section, as proposed in Sec. 18-15-230, are satisfied.

Within Zones AH or AO, adequate drainage paths around structures on slopes are required to guide floodwaters around and away from proposed structures.

#### Sec. 18-15-340. - 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 (see definition of Floodway in Sec. 18-15-50). Located within the Special Flood Hazard Area established in Sec. 18-15-70, 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:

1. 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 (requires a No-Rise Certification) in flood levels within the community during the occurrence of the base flood discharge.
2. If paragraph (1) above is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions.
3. Under the provisions of 44 CFR Chapter 1, Section 65.12 of the National Flood Insurance Regulations, the Town may permit encroachments within the adopted regulatory floodway that would result in an increase in Base Flood Elevations, provided that the Town first applies for a CLOMR and floodway revision through FEMA.

#### Sec. 18-15-350. - ALTERATION OF A WATERCOURSE

For all proposed developments that alter a watercourse within a Special Flood Hazard Area, the following standards apply:

1. 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.
2. Channelization and flow diversion projects shall evaluate the residual 100-year floodplain.
3. 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.

4. Any stream alteration activity shall be designed and sealed by a registered Colorado Professional Engineer or Certified Professional Hydrologist.
5. All activities within the regulatory floodplain shall meet all applicable Federal, State and the Town of Lyons floodplain requirements and regulations.
6. Within the Regulatory Floodway, stream alteration activities shall not be constructed unless the 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 CLOMR and Floodway revision in accordance with Sec. 18-15-340.
7. Maintenance shall be required for any altered or relocated portions of watercourses so that the flood-carrying capacity is not diminished.

#### Sec. 18-15-360. - 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 (LOMR-F), unless such new structure or addition complies with the following:

1. 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 two feet above the Base Flood Elevation that existed prior to the placement of fill.

2. 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 two feet 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 two feet 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 of effects of buoyancy.

#### Sec. 18-15-370. - STANDARDS FOR SUBDIVISION PROPOSALS

1. 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.
2. All proposals for the development of subdivisions, including the placement of manufactured home parks and subdivisions, shall meet the Floodplain Development Permit requirements of Sec. 18-15-80 and 18-15-330 and the provisions of Division 3 of this ordinance.
3. 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 Sec. 18-15-70 or Sec. 18-15-220 of this ordinance.
4. All subdivision proposals, including the placement of manufactured home parks, shall provide adequate drainage to reduce exposure to flood hazards.
5. 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. 18-15-380. - 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 the Town of Lyons at any time before, during and after a flood.

### 1. CLASSIFICATION OF CRITICAL FACILITIES:

It is the responsibility of the Board of Trustees to identify and confirm that specific structures in the Town meet the following criteria:

Critical Facilities are classified under the following categories: (a) Essential Services, (b) Hazardous Materials, (c) At-risk Populations, and (d) Vital to Restoring Normal Services.

- a. Essential services facilities include public safety, emergency response, emergency medical, designated emergency shelters, communications, public utility plant facilities, and transportation lifelines.

These facilities consist of:

- A. Public safety (police stations, fire and rescue stations, emergency vehicle and equipment storage, and emergency operation centers).
- B. 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).
- C. Designated emergency shelters.
- D. Communications (main hubs for telephone, 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).
- E. 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 service lines); and
- F. Air Transportation lifelines (airports (municipal and larger), helicopter pads and structures serving emergency functions, and associated infrastructure (aviation control towers, air traffic control centers, and emergency equipment aircraft hangars).

Specific exemptions to this category include wastewater treatment plants (WWTP), non-potable water treatment and distribution systems, hydroelectric power generating plants, and related appurtenances.

Public utility plant facilities may be exempted if it can be demonstrated to the satisfaction of the Board of Trustees 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 either 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 Board of Trustees on an as-needed basis upon request.

2. Hazardous materials facilities include facilities that produce or store highly volatile, flammable, explosive, toxic, and/or water-reactive materials. These facilities may include:
  - A. Chemical and pharmaceutical plants (chemical plant, pharmaceutical manufacturing).
  - B. Laboratories containing highly volatile, flammable, explosive, toxic, and/or water-reactive materials.
  - C. Refineries.
  - D. Hazardous waste storage and disposal sites; and
  - E. 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 (OSHA) to keep a Material Safety Data Sheet (MSDS) on file for any chemicals stored or used in the workplace, AND the chemical(s) is stored in quantities equal to or greater than the Threshold Planning Quantity (TPQ) for that chemical, then that facility shall be considered to be a Critical Facility. The TPQ for these chemicals is: either 500 pounds or the TPQ listed (whichever is lower) for the 356 chemicals listed under 40 C.F.R. § 302 (2010), also known as Extremely Hazardous Substances (EHS); or 10,000 pounds for any other chemical. This threshold is consistent with the requirements for reportable chemicals established by the Colorado Department of Health and Environment. OSHA requirements for MSDS can be found in 29 C.F.R. § 1910 (2010). The Environmental Protection Agency (EPA) regulation "Designation, Reportable Quantities, and Notification," 40 C.F.R. § 302 (2010) and OSHA regulation "Occupational Safety and Health Standards," 29 C.F.R. § 1910 (2010) are incorporated herein by reference and include the regulations in existence at the time of the promulgation this ordinance but exclude later amendments to or editions of the regulations. Specific exemptions to this category include:

- A. Finished consumer products within retail centers and households containing hazardous materials intended for household use, and agricultural products intended for agricultural use.
- B. Buildings and other structures containing hazardous materials for which it can be demonstrated to the satisfaction of the local authority having jurisdiction by hazard assessment and certification by a qualified professional (as determined by the local jurisdiction having land use authority) that a release of the subject hazardous material does not pose a major threat to the public.
- C. 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 Article.

3. At-risk population facilities include medical care, congregate care, and schools. These facilities consist of:
  - A. Eldercare (nursing homes).
  - B. Congregate care serving 12 or more individuals (daycare and assisted living).
  - C. Public and private schools (pre-schools, K-12 schools), before-school and after-school care serving 12 or more children).
4. Facilities vital to restoring regular services including government operations. These

facilities consist of:

- A. Essential government operations (public records, courts, jails, building permitting and inspection services, community administration and management, maintenance and equipment centers).
- B. Essential structures for public colleges and universities (dormitories, offices, and classrooms only).

These facilities may be exempt if it is demonstrated to the Board of Trustees 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 intergovernmental agreement or other contract), the alternative facilities are either located outside of the 100-year floodplain or are compliant with this ordinance, 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 Board of Trustees on an as-needed basis upon request.

- 5. **PROTECTION FOR 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 ordinance, protection shall include one of the following:
  - a. Location outside the Special Flood Hazard Area; or
  - b. Elevation of the lowest floor or floodproofing of the structure, together with attendant utility and sanitary facilities, to at least two feet above the Base Flood Elevation.
- 6. **INGRESS AND EGRESS FOR NEW CRITICAL FACILITIES:** New Critical Facilities shall, when practicable as determined by the Board of Trustees, have continuous non-inundated access (ingress and egress for evacuation and emergency services) during a 100-year flood event.