

ORDINANCE NO. 9  
ORDINANCE NO. 9

**REGULATIONS FOR FLOOD  
DAMAGE PREVENTION**

TABLE OF CONTENTS	PAGE
<b>ARTICLE I. STATUTORY AUTHORIZATION</b>	1
Section 1 - Statutory Authorization Section	1
Section 2 - Findings of Fact	1
Section 3 – Purpose	1
Section 4 - Methods of Reducing Flood Losses	2
<b>ARTICLE II.</b>	
<b>DEFINITIONS</b>	2
<b>ARTICLE III. GENERAL PROVISIONS</b>	5
Section 1 - Lands to Which This Ordinance Applies	5
Section 2 - Basis For Establishing the Areas of Special Flood Hazard	5
Section 3 – Compliance	5
Section 4 - Abrogation & Greater Restrictions	5
Section 5 – Interpretation	5
Section 6 - Warning & Disclaimer .of Liability	6
<b>ARTICLE IV. ADMINISTRATION</b>	6
Section 1 - Establishment of Development Permit	6
Section 2 - Designation of the Coordinator	7
Section 3 - Duties & Responsibilities of the Coordinator	7
3.1 Permit Review	7
3.2 Use of Other Base Flood Data	7
3.3 Information to be Obtained & Maintained	7
3.4 Alteration of Watercourses	8
3.5 Interpretation of FIRM Boundaries	8
Section 4 - Variance Procedure	8
4.1 Appeal Board	8
4.2 Conditions for Variances	9
<b>ARTICLE V. PROVISIONS FOR FLOOD HAZARD REDUCTION</b>	10
Section 1 - General Standards	10
1.1 Anchoring	10
1.2 Construction Materials & Methods 1.3 Utilities.	11
1.4 Subdivision Proposals	11
Section 2 - Specific Standards	12
2.1 Residential Construction	12
2.2 Nonresidential Construction	12
2.3 Manufactured Homes	12
Section 3 – Floodways	13
<b>ARTICLE VI. EFFECTIVE DATE</b>	14
Section 1.	14

# ORDINANCE NO.9

AN ORDINANCE OF MEADE COUNTY PROVIDING REGULATIONS FOR FLOOD DAMAGE PREVENTION. THE GOVERNING BODY OF MEADE COUNTY DOES ORDAIN AS FOLLOWS:

## ARTICLE 1

### STATUTORY AUTHORIZATION, FINDINGS OF FACT, PURPOSE AND OBJECTIVES

#### Section 1 - STATUTORY AUTHORIZATION

The legislature of the State of South Dakota has in SDCI7-18-15 delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the County Commissioners of Meade County, South Dakota does ordain as follows:

#### Section 2 - FINDINGS OF FACT

1. The flood hazard areas of Meade County are subject to periodic inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare.
2. These flood losses are caused by the cumulative effect of obstructions in areas of special flood hazards which increase flood heights and velocities, and when inadequately anchored, damage uses in other areas. Uses that are inadequately floodproofed, elevated or otherwise protected from damage also contribute to the flood loss.

#### Section 3 - STATEMENT OF PURPOSE

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

1. To protect human life and health;
2. To minimize expenditure of public money for costly flood control projects;
3. To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
4. To minimize prolonged business interruptions.

5. To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard;
6. To help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas;
7. To ensure that potential buyers are notified that property is in an area of special flood hazard; and,
8. To ensure that those who occupy the areas of special flood hazards assume responsibility for their actions.

#### Section 4 - METHODS OF REDUCING FLOOD LOSSES

In order to accomplish its purposes, this ordinance includes methods and provisions for:

1. Restricting or prohibiting uses which are dangerous to health, safety, and property due to water or erosion hazards, or which result in damaging increases in erosion origin flood heights or velocities;
2. Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
3. Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
4. Controlling filling, grading, dredging, and other development which may increase flood damage; and,
5. Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards in other areas.

## **ARTICLE II DEFINITIONS**

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

APPEAL – means a request for a review of the Coordinator's interpretation of any provisions of this ordinance or a request for a variance.

AREA OF SPECIAL FLOOD HAZARD - means the land in the floodplain within a community subject to a one percent or greater chance of flooding in any given year.

BASE FLOOD - means the flood having a one percent chance of being equaled or exceeded in any given year.

DEVELOPMENT - means any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation, or drilling operations located within the area of special flood hazard.

EXISTING MANUFACTURED HOME PARK OR SUBDIVISION - means a manufactured home park for which the construction of facilities for servicing the lot on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, either final site grading or the pouring of concrete pads, and the construction of streets) are completed before the effective date of this ordinance.

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, either final site grading or pouring of concrete pads, or the construction of streets);

FLOOD OR FLOODING - means a general and temporary condition of partial or complete inundation of normally dry land areas from:

1. The overflow of inland or tidal waters and/or
2. The unusual and rapid accumulation or runoff of surface waters from any source.

FLOOD INSURANCE RATE MAP (FIRM) - means the official map on which the Federal Emergency Management Agency has delineated both the areas of special flood hazards and the risk of premium zones applicable to the community.

FLOOD INSURANCE STUDY - means the official report provided by the Federal Emergency Management Agency that includes flood profiles, the Flood Boundary - Floodway Map and the water surface elevation of the base flood.

FLOODWAY - means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one (1) foot.

LOWEST FLOOR - means the lowest floor of the lowest enclosed area (including basement). An unfinished or flood resistant enclosure, usable solely for parking vehicles, building access or storage, in an area other

than a basement area, is not considered a building's lowest floor, provided that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this ordinance.

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. This term also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than 180 consecutive days.

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.

NEW CONSTRUCTION - means structures for which the "start of construction" commenced on or after the effective date of this ordinance.

START OF CONSTRUCTION - includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, placement, or other improvement was within 180 days of the permit date. The actual start means the first placement of permanent construction of a structure on a site, such as the pouring of a slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation such as clearing, grading, and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure.

STRUCTURE - means a walled and roofed building or manufactured home that is principally above ground.

SUBSTANTIAL IMPROVEMENT - means any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either:

1. before the improvement or repair is started, or
2. if the structure has been damaged and is being restored, before the damage occurred. For the purpose of this definition, "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure.

The term does not, however, include either:

1. any project for improvement of a structure to comply with existing State or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions, or
2. any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

VARIANCE - means a grant of relief from the requirements of this ordinance which permits construction in a manner that would otherwise be prohibited by this ordinance.

### **ARTICLE III GENERAL PROVISIONS**

#### Section 1 - LANDS TO WHICH THIS ORDINANCE APPLIES

This ordinance shall apply to all areas of special flood hazards within the jurisdiction of Meade County, South Dakota.

#### Section 2 - BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD

The areas of special flood hazard identified by the Federal Emergency Management Agency in a scientific and engineering report entitled, "The Flood Insurance Study for the County of Meade," dated February, 1978 with an accompanying Flood Insurance Rate Map (FIRM) is hereby adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study and Firm are on file at the Auditor's Office, Meade County, Sturgis, South Dakota.

#### Section 3 - COMPLIANCE

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.

#### Section 4 - 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.

#### Section 5 - INTERPRETATION

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

1. Considered as minimum requirements;
2. Liberally construed in favor of the governing body; and,
3. Deemed neither to limit nor repea1 any other powers granted under State statutes.

#### Section 6 - 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. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside the areas of special flood hazard or uses permitted within such areas will be free from flooding or flood damages. This ordinance shall not create liability on the part of Meade County, any officer or employee thereof, or the Federal Emergency Management Agency for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made there under.

### **ARTICLE IV ADMINISTRATION**

#### Section 1 - ESTABLISHMENT OF DEVELOPMENT PERMIT

A development permit shall be obtained before construction or development begins within any area of special flood hazard established in Article III, Section 2. Application for a "development permit " shall be made on forms furnished by the Coordinator and may include, but not be limited to:

Plans in duplicate drawn to scale. showing the nature location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities; and the location of the foregoing. Specifically, the following information is required:

1. Elevation in relation to mean sea level of the lowest floor (including basement) of all structures;
2. Elevation in relation to mean sea level to which any structure has been floodproofed;
3. Certification by a registered professional engineer or architect that the floodproofing methods for any non-residential structure meet the floodproofing criteria in Article V, Section 2, 2.2, and
4. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development.

## Section 2 - DESIGNATION OF THE COORDINATOR

The Coordinator is hereby appointed to administer and implement this ordinance by granting or denying development permit applications in accordance with its provisions.

## Section 3 - DUTIES AND RESPONSIBILITIES OF THE COORDINATOR

Duties of the Coordinator shall include, but not be limited to:

### 3.1 Permit Review

1. Review all development permits to determine that the permit requirements of this ordinance have been satisfied.
2. Review all development permits to determine that all necessary permits have been obtained from Federal, State, or local governmental agencies from which prior approval is required.
3. Review all development permits to determine if the proposed development is located in the floodway. If located in the floodway, assure that the encroachment provisions of Article V, Section 3.1 are met.

### 3.2 Use of Other Base Flood Data

When base flood elevation data has not been provided in accordance with Article III, Section 2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD, the Coordinator shall obtain, "review, and reasonably -utilize any base flood elevation and floodway data available from any Federal, State, or other source as criteria for-requiring that new construction, "substantial improvements, or other development in Zone A are administered in accordance with Article V, Section 2 SPECIFIC STANDARDS.

### 3.3 Information to be Obtained and Maintained

1. Obtain and record the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved structures, and whether or not the structure contains a basement.
2. For all new or substantially improved floodproofed structures:
  - a. Verify and record the actual elevation (in relation to mean sea-level) to which the structure is floodproofed.
  - b. Maintain the Floodproofing certifications required in Article IV, Section 1.3.
3. Maintain for public inspection all records pertaining to the provisions of this ordinance.

### 3.4 Alteration of Watercourses

1. Notify adjacent communities and the State Planning Bureau prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Emergency Management Agency.
2. Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood-carrying capacity is not diminished.

### 3.5 Interpretation of FIRM Boundaries.

Make interpretations, where needed, as to the exact location of the boundaries of the areas of special flood hazards (for example, where there appears to be a conflict between a mapped boundary and actual field conditions). The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation as provided in Article IV, Section 4.

## Section 4 - VARIANCE PROCEDURE

### 4.1 Appeal Board

1. The Planning Commission, as established by the Meade County Commissioners shall hear and decide appeals and request for variances from the requirements of this ordinance.
2. The Planning Commission shall hear and decide appeals when it is alleged there is an error in any requirement, decision, or determination made by the Coordinator in the enforcement or administration of this ordinance.
3. Those aggrieved by the decision of the Planning Commission, or any taxpayer, may appeal such decisions to the Circuit Court, as provided in SDCL7-8-27.
4. In passing upon such applications, the Planning Commission shall consider all technical evaluations, all relevant factors, standards specified in other sections of this ordinance, and:
  - a. the danger that materials may be swept onto other lands to the injury of others;
  - b. the danger to life and property due to flooding or erosion damage;
  - c. the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owners;
  - d. the importance of the services provided by the proposed facility to the community;
  - e. the necessity to the facility of a waterfront location, where applicable;

- f. the availability of alternative locations for the proposed use which are not subject to flooding or erosion damage;
- g. the compatibility of the proposed use with the existing and anticipated development;
- h. the relationship of the proposed use to the comprehensive plan and floodplain management program for that area;
- i. the safety of access to the property in times of flood for ordinary and emergency vehicles;
- j. the expected heights, velocity, duration, rate of rise and sediment transport of the flood waters and the effect of wave action, if applicable, expected at the site; an
- k. the costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, streets, and bridges.

5. Upon consideration of the factors of Article IV, Section 4, 4.1 (4) and the purposes of this ordinance, the Planning Commission may attach such conditions to the granting of variances as deems necessary to further the purposes of this ordinance.

6. The Coordinator shall maintain the records of all appeal actions, including technical information, and report any variances to the Federal Emergency Management Agency.

#### 4.2 Conditions for Variances

1. Generally, 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 level providing items a - k in Article IV, Section 4, 4.1(4) ha been fully considered. As the lot size increases beyond one-half acre, the technical justifications required for issuing the variance increases.

2. Variances may be issued for the reconstruction, rehabilitation or restoration of structures listed on the National Registry of Historic Places or the State Inventory of Historic Places without regard to the procedures set forth in the remainder of this section.

3. Variances shall not be issued within any designated floodway if any increase in flood discharge would result.

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

5. Variances shall only be issued upon:

a. a showing of good and sufficient cause;

b. a determination that failure to grant the variance would result in exceptional hardship to the applicant; and

c. 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 as identified in Article IV, Section 4, 4.1(4) or conflict with existing local laws or ordinances.

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

## **ARTICLE V**

### **PROVISIONS FOR FLOOD HAZARD REDUCTION**

#### **Section 1 - GENERAL STANDARDS**

In all areas of special flood hazards, the following standards are required:

##### **1.1 Anchoring**

1. All new construction and substantial improvements shall be anchored to prevent flotation, collapse, or lateral movement of the structure and capable of resisting the hydrostatic and hydrodynamic loads.

2. All manufactured homes must be elevated and anchored to resist flotation, collapse, or lateral movement and capable of resisting the hydrostatic and hydrodynamic loads. 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.

Specific requirements may be:

- a. over-the-top ties be provided at each of the four corners of the manufactured home, with two additional ties per side at intermediate locations, with manufacture homes less than 50 feet long requiring one additional tie per side.
- b. frame ties be provided at each corner of the home with five additional ties per side at intermediate points, with manufactured homes less than 50 feet long requiring four additional ties per side;
- c. all components of the anchoring system be capable of carrying a force of 4,800 pounds and,
- d. any additions to the manufactured home be similarly anchored.

## 1.2 Construction Materials and Methods

1. All new construction and substantial improvements shall b constructed with materials and utility equipment resistant to flood damage.
2. All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.
3. All new construction and substantial improvements shall t 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.

## 1.3 Utilities

1. All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system;
2. New and replacement sanitary sewage systems shall be designated to minimize or eliminate infiltration of flood waters in the systems and discharge from the systems into flood waters; and,
3. On-site waste disposal systems shall be located to avoid impairment to them or contamination during flooding.

## 1.4 Subdivision Proposals

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

2. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage;
3. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood damage; and,
4. Base flood elevation data shall be provided for subdivision proposals and other proposed development which contain at least 50 lots or 5 acres (whichever is less).

## Section 2 - SPECIFIC STANDARDS

In all areas of special flood hazards where base flood elevation data has been provided as set forth in Article III, Section 2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD or Article IV, Section 3, 3.2, Use of Other Base Flood Data, the following provisions are required:

### 2.1 Residential Construction

1. New construction and substantial improvement of any residential structure shall have the lowest floor (including basement) elevated to or above the base flood elevation.

### 2.2 Nonresidential Construction

New construction and substantial improvement of any commercial, industrial, or other nonresidential structure shall either have the lowest floor (including basement) elevated to the level of the base flood elevation; or, together with attendant utility and sanitary facilities, shall:

1. be floodproofed so that below the base flood elevation the structure is watertight with walls substantially impermeable to the passage of water;
2. have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy; and
3. be certified by a registered professional engineer or architect that the design and methods of construction are in accordance with accepted standards of practice for meeting the provisions of this paragraph. Such certifications shall be provided to the officials as set forth in Article IV, Section 3, 3.2.

### 2.3 Manufactured Homes

1. Manufactured homes shall be anchored in accordance with Article V, Section 1, 1.1.

2. All manufactured homes or those to be substantially improved shall be elevated on a permanent foundation such that lowest floor of the manufactured home is at or above base flood elevation and is securely anchored to an anchored foundation system. This paragraph applies to manufactured homes to be placed or substantially improved an expansion to an existing manufactured home park or subdivision. This paragraph does not apply to manufactured homes to be placed or substantially improved in an existing manufactured home park or subdivision except where the repair, reconstruction, or improvement of the streets, utility pads equals or exceeds 50 per cent of the value of streets, utilities and pads before the repair, reconstruction improvement has commenced.

### Section 3 - FLOODWAYS

Located within areas of special flood hazard established in Article III Section 2, are areas designated as floodways. Since the flood an extremely hazardous area due to the velocity of flood waters which carry debris, potential projectiles, and erosion potential, the following provisions apply:

1. Prohibit encroachments, including fill, new construction substantial improvements, and other development unless certification by a registered professional engineer or architect provided demonstrating that encroachments shall not result in any increase in flood levels during the occurrence base flood discharge.

2. If Article V, Section 3, 1 is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Article V, PROVISIONS FOR FLOOD HAZARD REDUCTION.

**ARTICLE VI**  
**EFFECTIVE DATE**

Section 1

Whereas, this Ordinance is necessary to promote the public health safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas this Ordinance shall be full force and effect-after its passage and approval.

S \_\_\_\_\_  
Chairman Board of County Commissioners

ATTEST: S \_\_\_\_\_  
Meade County Auditor

Date of First Reading May 2, 1989

Date of Second Reading May 9, 1989

Adopted May 9, 1989

Date of Publication May 13 & 20, 1989 and May 17 & 24, 1989

Effective Date June 13, 1989

THIS PAGE IS LEFT INTENTIONALLY  
BLANK