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ORDINANCE NO. 455

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TITLE VI - COMMUNITY DEVELOPMENT AND ENVIRONMENT

Chapter 8

FLOOD PLAIN MANAGEMENT ORDINANCE

SECTION 1 STATUTORY AUTHORIZATION, FINDINGS OF FACT AND PURPOSE

6-7.0101 STATUTORY AUTHORIZATION. The Legislature of the State of Iowa has in Chapter 414, Code of Iowa, 1977, as amended, delegated the responsibility to cities to enact zoning regulations to secure safety from flood and to promote health and the general welfare.

6-7.0102 FINDINGS OF FACT.

1. The flood hazard areas of Glenwood are subject to periodic inundation which can result 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 health, safety, and general welfare of the community.

2. These losses, hazards and related adverse effects are caused by i) the occupancy of flood hazard areas by uses vulnerable to flood damages which create hazardous conditions as a result of being inadequately elevated or otherwise protected from flood and ii) the cumulative effect of flood plain construction on flood flows, which causes increases in flood heights and flood water velocities.

3. This ordinance relies upon engineering methodology for analyzing flood hazards which is consistent with the standards established by the Iowa Natural Resources Council.

This methodology consists of a series of interrelated steps including:

a) Determination of flood magnitudes and the corresponding flood frequencies by statistical and engineering calculations which permits a consideration of such flood factors as expected frequency of occurrence, area inundated, and depth of inundation.

b) Calculation of water surface profiles based upon a hydraulic engineering analysis of the capability of the stream channel and overbank areas to convey flood flows.

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c) Computation and delineation of a floodway, an area which must be reserved (no obstructions) for conveyance of flood flows so that flood heights and velocities will not be substantially increased by future encroachment on the flood plain.

6-7.0103 STATEMENT OF PURPOSE. It is the purpose of this ordinance to promote the public health, safety, and general welfare by minimizing those flood losses described in 6-7.0102 with provisions designed to:

1. Reserve sufficient flood plain area for the conveyance of flood flows so that flood heights and velocities will not be increased substantially.

2. Restrict or prohibit uses which are dangerous to health, safety or property in times of flood or which cause excessive increases in flood heights or velocities.

3. Require that uses vulnerable to floods, including public utilities which serve such uses, be protected against flood damage at the time of initial construction.

4. Protect individuals from buying lands which are unsuited for intended purposes because of flood hazard.

5. Assure that eligibility is maintained for property owners in the community to purchase flood insurance through the National Flood Insurance Program.

SECTION 2 DEFINITIONS

6-7.0201 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 its most reasonable application.

DEVELOPMENT. Any man-made change to improve or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations.

FLOOD. A general and temporary condition of partial or complete inundation of normally dry land areas resulting from the overflow of streams or rivers or from the unusual and rapid runoff of surface waters from any source.

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SECTION 3 GENERAL PROVISIONS

6-7.0301 LAND TO WHICH ORDINANCE APPLIES. This ordinance shall apply to all lands within the jurisdiction of Glenwood shown on the Official Zoning Map as being with the boundaries of the Floodway, Floodway Fringe.

6-7.0302 ESTABLISHMENT OF OFFICIAL FLOOD PLAIN ZONING MAP. The Official Flood Plain Zoning Map, together with all explanatory matter thereon and attached thereto, is hereby adopted by reference and declared to be a part of this ordinance. The Official Zoning Map bears the signature of the Mayor attested by the City Clerk and shall be on file in the office of the City Clerk. The Flood Insurance Study and Flood Insurance Rate Map(s) for the City of Glenwood, dated ~~May 12~~ *May 12*, 1982, are attached to and made a part of the Official Flood Plain Zoning Map.

6-7.0303 RULES FOR INTERPRETATION OF DISTRICT BOUNDARIES. The boundaries of the zoning district shall be determined by scaling distances on the Official Flood Plain Zoning Map. Where interpretation is needed as to the exact location of the boundaries of the district as shown on the Official Zoning Map the Zoning Administrator shall make the necessary interpretation. The person contesting the location of the district boundary shall be given a reasonable opportunity to present their case and submit technical evidence.

6-7.0304 COMPLIANCE. No structure or land shall hereafter be used and no structure shall be located, extended, converted or structurally altered without full compliance with the terms of this ordinance and other applicable regulations which apply to uses within the jurisdiction of this ordinance.

6-7.0305 ABROGATION AND GREATER RESTRICTIONS. It is not intended by this ordinance to repeal, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this ordinance imposes greater restrictions, the provision of this ordinance shall prevail. All other ordinances inconsistent with this ordinance are hereby repealed to the extent of the inconsistency only.

6-7.0306 INTERPRETATION. In their interpretation and application, the provisions of this ordinance shall be held to be minimum requirements and shall be liberally construed in favor of the governing body and shall not be deemed a limitation or repeal of any other powers granted by State statutes.

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6-7.0307 WARNING AND DISCLAIMER OF LIABILITY. The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on engineering and scientific methods of study. Larger floods may occur on rare occasions. Flood heights may be increased by man-made or natural causes, such as ice jams and bridge openings restricted by debris. This ordinance does not imply that areas outside the flood plain districts or land uses permitted within such districts will be free from flooding or flood damages. This ordinance shall not create liability on the part of Glenwood or any officer or employee thereof for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made thereunder.

6-7.0308 SEVERABILITY. If any section, clause, provision or portion of this ordinance is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of this ordinance shall not be affected thereby.

SECTION 4 ESTABLISHMENT OF ZONING DISTRICTS

6-7.0401 The Flood plain areas within the jurisdiction of this ordinance are hereby divided into the following districts:

1. FLOODWAY (OVERLAY) DISTRICT. The Floodway District shall be consistent with the boundaries of the floodway as shown on the Official Flood Plain Zoning Map.
2. FLOODWAY FRINGE (OVERLAY) DISTRICT. The Floodway Fringe District shall be those areas shown as floodway fringe on the Official Flood Plain Zoning Map.

SECTION 5 FLOODWAY (OVERLAY) DISTRICT (FW)

6-7.0501 PERMITTED USES. The following uses shall be permitted within the Floodway District to the extent they are not prohibited by any other ordinance (or underlying zoning district) and provided they do not require placement of structures, mobile homes, fill or other obstruction, the storage of materials or equipment, excavation, or alteration of a watercourse.

1. Agricultural uses such as general farming, pasture, grazing, outdoor plant nurseries, horticulture, viticulture, truck farming, forestry, sod farming, and wild crop harvesting.

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2. Industrial-commercial uses such as loading areas, parking areas, airport landing strips.

3. Private and public recreational uses such as golf courses, tennis courts, driving ranges, archery ranges, picnic grounds, boat launching ramps, swimming areas, parks, wildlife and nature preserves, game farms, fish hatcheries, shooting preserves, target ranges, trap and skeet ranges, hunting and fishing areas, hiking and horseback riding trails.

4. Residential uses such as lawns, gardens, parking areas and play areas.

5. Such other open-space uses similar in nature to the above uses.

6-7.0502 CONDITIONAL USES. The following uses which involve structures (temporary or permanent), fill, storage of materials or equipment may be permitted only upon issuance of a Conditional Use Permit by the Board of Adjustment as provided for in Section 6-7.0703. Such uses must also meet the applicable provisions of the Floodway District Performance Standards.

1. Uses or structures accessory to open-space uses.

2. Circuses, carnivals, and similar transient amusement enterprises.

3. Drive-in theaters, new and used car lots, roadside stands, signs, and billboards.

4. Extraction of sands, gravel, and other materials.

5. Marinas, boat rentals, docks, piers, wharves.

6. Utility transmission lines, underground pipelines.

7. Other uses similar in nature to uses described in Section 6-7.0501 or 6-7.0502 which are consistent with the provisions of Sections 6-7.0503 and the general spirit and purpose of this ordinance.

6-7.0503 PERFORMANCE STANDARDS. All Floodway District uses allowed as a Permitted or Conditional Use shall meet the following standards.

1. No use shall be permitted in the Floodway District that would result in any increase in the 100 year flood level. Consideration of the effects of any development on flood levels shall be based upon the assumption that an equal degree of development would be allowed for similarly situated lands.

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2. All uses within the Floodway District shall:
 - a) Be consistent with the need to minimize flood damage.
 - b) Use construction methods and practices that will minimize flood damage.
 - c) Use construction materials and utility equipment that are resistant to flood damage.
3. No use shall affect the capacity or conveyance of the channel or floodway or any tributary to the main stream, drainage ditch, or any other drainage facility or system.
4. Structures, buildings and sanitary and utility systems, if permitted, shall meet the applicable performance standards of the Floodway Fringe District and shall be constructed or aligned to present the minimum possible resistance to flood flows.
5. Buildings, if permitted, shall have a low flood damage potential and shall not be for human habitation.
6. Storage of materials or equipment that are buoyant, flammable, explosive or injurious to human, animal or plant life is prohibited. Storage of other material may be allowed if readily removable from the Floodway District within the time available after flood warning.
7. Watercourse alterations or relocations (channel changes and modifications) must be designed to maintain the flood carrying capacity within the altered or relocated portion. In addition, such alterations or relocations must be approved the the Iowa Natural Resources Council.
8. Any fill allowed in floodway must be shown to have some beneficial purpose and shall be limited to the minimum amount necessary.
9. Pipeline river or stream crossings shall be buried in the streambed and banks or otherwise sufficiently protected to prevent rupture due to channel degradation and meandering or due to the action of flood flows.
10. No mobile homes shall be permitted except in existing mobile home parks. Tie-down standards of the Floodway Fringe District must be met in such cases.

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SECTION 6 FLOODWAY FRINGE (OVERLAY) DISTRICT (FF)

6-7.0601 PERMITTED USES. All uses within the Floodway Fringe District shall be permitted to the extent that they are not prohibited by any other ordinance (or underlying zoning district) and provided they meet applicable performance standards of the Floodway Fringe District.

6-7.0602 PERFORMANCE STANDARDS. All uses must be consistent with the need to minimize flood damage and shall meet the following applicable performance standards.

1. ALL STRUCTURES SHALL i) be adequately anchored to prevent flotation, collapse or lateral movement of the structure, ii) be constructed with materials and utility equipment resistant to flood damage, and iii) be constructed by methods and practices that minimize flood damage.

2. RESIDENTIAL BUILDINGS. All new or substantially improved residential structures shall have the lowest floor, including basements, elevated a minimum of 1.0 ft. above the 100 year flood level. Construction shall be upon compacted fill which shall, at all points, be no lower than 1.0 ft. above the 100 year flood level and extend at such elevation at least 18 feet beyond the limits of any structure erected thereon. Alternate methods of elevating (such as piers) may be allowed, subject to favorable consideration by the Board of Adjustment and issuance of a Conditional Use Permit, where existing topography, street grades, or other factors preclude elevating by fill. In such cases, the methods used must be adequate to support the structure as well as withstand the various forces and hazards associated with flooding.

3. NON-RESIDENTIAL BUILDINGS. All new or substantially improved non-residential buildings shall have the first floor (including basement) elevated a minimum of 1.0 ft. above the 100 year flood level, or together with attendant utility and sanitary systems, be floodproofed to such a level. When floodproofing is utilized, a professional engineer registered in the State of Iowa shall certify that the floodproofing methods used are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with the 100 year flood; and that the structure, below the 100 year flood level, is watertight with walls substantially impermeable to the passage of water. A record of the certification indicating the specific elevation (in relation to mean sea level) to which any structures are floodproofed shall be maintained by the Zoning Administrator.

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4. Mobile homes which are placed in an existing mobile home park shall be anchored to resist flotation, collapse, or lateral movement by providing over-the-top and frame ties to ground anchors. Specific requirements are that i) over-the-top ties be provided at each of the four corners of the mobile home with two (2) additional ties per side at intermediate locations for mobile homes 50 ft. or more in length of one (1) such tie for mobile homes less than 50 ft. in length; ii) frame ties be provided at each corner of the home with five (5) additional ties per side at intermediate points for mobile homes 50 ft. or more in length or four (4) such ties for homes less than 50 ft. in length; iii) all components of the anchoring system be capable of carrying a force of 4800 pounds; and iv) any additions to the mobile home be similarly anchored.

5. Mobile homes not being placed in existing mobile home parks shall be placed on lots or pads elevated by means of compacted fill so that the lowest floor of the mobile home will be a minimum of 1.0 ft. above the 100 year flood level. In addition, the tie down specifications of Section 6-7.0602 (4) must be met and adequate surface drainage and access for a hauler must be provided.

6. New mobile home parks, expansions to existing mobile home parks, and mobile home parks where the repair, reconstruction or improvement of the streets, utilities and pads equals or exceeds 50% or more of the value of the streets, utilities and pads before the repair reconstruction or improvement has commenced shall provide i) lots or pads that have been elevated by means of compacted fill so that the lowest floor of mobile homes will be a minimum of 1.0 ft. above the 100 year flood level, ii) adequate surface drainage, iii) access for a hauler and iv) ground anchors for mobile homes.

7. UTILITY AND SANITARY SYSTEMS.

a) All new and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system as well as the discharge of effluent into flood waters. Wastewater treatment facilities shall be provided with a level of flood protection equal to or greater than one (1) foot above the 100 year flood elevation.

b) On site waste disposal systems shall be located or designed to avoid impairment to the system or contamination from the system during flooding.

c) New or replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system. Water supply treatment facilities shall be provided with a level of protection equal to or greater than one (1) foot above the 100 year flood elevation.

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d) Utilities such as gas and electrical systems shall be located and constructed to minimize or eliminate flood damage to the system and the risk associated with such flood damaged or impaired systems.

8. Storage of materials and equipment that are flammable, explosive or injurious to human, animal or plant life is prohibited unless elevated a minimum of one (1) foot above the 100 year flood level. Other material and equipment must either be similarly elevated or i) not be subject to major flood damage and be anchored to prevent movement due to flood waters or ii) be readily removable from the area within the time available after flood warning.

9. Flood control structural works such as levees, flood-walls, etc. shall provide, at a minimum, protection from a 100 year flood with a minimum of 3 ft. of design freeboard and shall provide for adequate interior drainage. In addition, structural flood control works shall be approved by the Iowa Natural Resources Council.

10. No use shall affect the capacity or conveyance of the channel or floodway of any tributary to the main stream, drainage ditch, or other drainage facility or system.

11. Subdivisions shall be consistent with the need to minimize flood damages and shall have adequate drainage provided to reduce exposure to flood damage. Development associated with subdivision proposals shall meet the applicable performance standards. Subdivision proposals intended for residential development shall provide all lots with a means of vehicular access that will remain dry during occurrence of the 100 year flood.

SECTION 7 ADMINISTRATION

6-7.0701 APPOINTMENT, DUTIES AND RESPONSIBILITIES OF ZONING ADMINISTRATOR.

1. A Zoning Administrator designated by the city council shall administer and enforce this ordinance and will herein be referred to as the Administrator.

2. Duties and Responsibilities of the Administrator shall include, but not necessarily be limited to, the following.

a) Review all flood plain development permit applications to insure that the provisions of this ordinance will be satisfied.

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b) Review all flood plain development permit applications to insure that all necessary permits have been obtained from federal, state or local governmental agencies.

c) Record and maintain a record of i) the elevation (in relation to mean sea level) of the lowest habitable floor of all new or substantially improved buildings or ii) the elevation to which new or substantially improved structures have been floodproofed.

d) Notify adjacent communities and/or countries and the Iowa Natural Resources Council prior to any proposed alteration or relocation of a watercourse and submit evidence of such notifications to the Federal Insurance Administrator.

e) Keep a record of all permits, appeals, variances and such other transactions and correspondence pertaining to the administration of this ordinance.

f) Submit to the Federal Insurance Administrator an annual report concerning the community's participation, utilizing the annual report form supplied by the Federal Insurance Administration.

g) Notify the Federal Insurance Administration of any annexations or modifications to the community's boundaries.

h) Review subdivision proposals to insure such proposals are consistent with the purpose of this ordinance and advise the City Council of potential conflicts.

6-7.0702 FLOOD PLAIN DEVELOPMENT PERMIT.

1. PERMIT REQUIRED. A Flood Plain Development Permit issued by the Administrator shall be secured prior to initiation of any flood plain development (any man-made change to improve or unimproved real estate, including but not limited to buildings or other structures, mining, filling, grading, paving, excavation or drilling operations) including the placement of mobile homes.

2. APPLICATION FOR PERMIT. Application for a Flood Plain Development Permit shall be made on forms supplied by the Administrator and shall include the following information.

a) Description of the work to be covered by the permit for which application is to be made.

b) Description of the land on which the proposed work is to be done (i.e. - lot, block, tract, street address or similar description) that will readily identify and locate the work to be done.

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c) Indication of the use or occupancy for which the proposed work is intended.

d) Elevation of the 100 year flood.

e) Elevation (in relation to mean sea level) of the lowest habitable floor (including basement) of buildings or of the level to which a building is to be floodproofed.

f) For buildings being improved or rebuilt, the estimated cost of improvements and market value of the building prior to the improvements.

g) Such other information as the Administrator deems reasonably necessary for the purpose of this ordinance.

3. ACTION ON PERMIT APPLICATION. The Administrator shall, within a reasonable time, make a determination as to whether the proposed flood plain development meets the applicable provisions and standards of this ordinance and shall approve or disapprove the application. For disapprovals, the applicant shall be informed, in writing, of the specific reasons therefore. The Administrator shall not issue permits for Conditional Uses or variances except as directed by the Board of Adjustment.

4. Construction and Use to be as Provided in Application and Plans. Flood Plain Development Permits issued on the basis of approved plans and applications authorized only the use, arrangement, and construction set forth in such approved plans and applications and no other use, arrangement or construction. Any use, arrangement, or construction at variance with that authorized shall be deemed a violation of this Ordinance and shall be punishable as provided in Section 9. The applicant shall be required to submit certification by a professional engineer or land surveyor, as appropriate, registered in the State of Iowa, that the finished fill, building floor elevations, floodproofing, or other flood protection measures were accomplished in compliance with the provisions of this Ordinance, prior to the use or occupancy of any structure.

6-7.0703 CONDITIONAL USES, APPEALS, AND VARIANCES.

1. APPOINTMENT AND DUTIES OF BOARD OF ADJUSTMENT. A Board of Adjustment is hereby established which shall hear and decide i) applications for Conditional Uses upon which the Board is authorized to pass under this Ordinance; ii) appeals, and iii) requests for variances to the provisions of this Ordinance; and shall take any other action which is required of the Board.

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2. **CONDITIONAL USES.** Requests for Conditional Uses shall be submitted to the Administrator, who shall forward such to the Board of Adjustment for consideration. Such requests shall include information ordinarily submitted with applications as well as any additional information deemed necessary by the Board of Adjustment.

3. **APPEALS.** Where it is alleged there is any error in any order, requirement, decision, or determination made by an administrative official in the enforcement or administration of this Ordinance, the aggrieved party may appeal such action. The notice of appeal shall be filed with the Board of Adjustment and with the official from whom the appeal is taken and shall set forth the specific reason for the appeal. The official from whom the appeal is taken shall transmit to the Board of Adjustment all the papers constituting the record upon which the action appealed from was taken.

4. **VARIANCES.** The Board of Adjustment may authorize upon request in specific cases such variances from the terms of this ordinance that will not be contrary to the public interest, where owing to special conditions a literal enforcement of the provisions of this ordinance will result in unnecessary hardship. Variances granted must meet the following applicable standards.

a) No variance shall be granted for any development within the Floodway District which would result in any increase in floods during the occurrence of the 100 year flood.

b) Variances shall only be granted upon i) a showing of 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 the 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.

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

d) In cases where the variance involves a lower level of flood protection for buildings than what is ordinarily required by this Ordinance, the applicant shall be notified in writing over the signature of the Zoning Administrator that i) the issuance of a variance will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage and ii) such construction increases risks to life and property.

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e) All variances granted shall have the concurrence or approval of the Iowa Natural Resources Council.

5. HEARINGS AND DECISIONS OF THE BOARD OF ADJUSTMENT.

a) HEARINGS. Upon the filing with the Board of Adjustment of an appeal, an application for a Conditional Use or a request for a Variance, the Board shall hold a public hearing. The Board shall fix a reasonable time for the hearing and give public notice thereof, as well as due notice to parties in interest. At the hearing, any party may appear in person or by agent or attorney and present written or oral evidence. The Board may require the appellant or applicant to provide such information as is reasonably deemed necessary and may request the technical assistance and/or evaluation of a professional engineer or other expert person or agency, including the Iowa Natural Resources Council.

b) DECISIONS. The Board shall arrive at a decision on an appeal, Conditional Use or Variance within a reasonable time. In passing upon an appeal, the Board may, so long as such action is in conformity with the provisions of the ordinance, reverse or affirm, wholly or in part, or modify the order, requirement, decision, or determination appealed from, and it shall make its decision, in writing, setting forth the findings of fact and the reasons for its decision. In granting a Conditional Use or Variance, the Board shall consider such factors as contained in this section and all other relevant sections of this ordinance and may prescribe such conditions as contained in Section 6-7.0703 (5)(b)(2).

1. Factors upon which the decision of the Board shall be based. In passing upon applications for Conditional Uses or requests for Variances, the Board shall consider all relevant factors specified in other sections of this ordinance and

a) The danger to life and property due to increased flood heights or velocities caused by encroachments.

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

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

d) The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.

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e) The importance of the services provided by the proposed facility to the community.

f) The requirements of the facility for a flood plain location.

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

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

i) The relationship of the proposed use to the comprehensive plan and flood plain management program for the area.

j) The safety of access to the property in times of flood for ordinary and emergency vehicles.

k) The expected heights, velocity, duration, rate of rise and sediment transport of the flood water expected at the site.

l) Such other factors which are relevant to the purpose of this ordinance.

2. CONDITIONS ATTACHED TO CONDITIONAL USES OR VARIANCES. Upon consideration of the factors listed above, the Board may attach such conditions to the granting of Conditional Uses or Variances as it deems necessary to further the purpose of this ordinance. Such conditions may include, but not necessarily be limited to:

a) Modification of waste disposal and water supply facilities.

b) Limitation on periods of use and operation.

c) Imposition of operational controls, sureties, and deed restrictions.

d) Requirements for construction of channel modification, dikes, levees, and other protective measures, provided such are approved by the Iowa Natural Resources Council and are deemed the only practical alternative to achieving the purposes of this ordinance.

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e) FLOODPROOFING MEASURES. Floodproofing measures shall be designed consistent with the flood protection elevation for the particular area, flood velocities, durations, rate of rise, hydrostatic and hydrodynamic forces, and other factors associated with the regulatory flood. The Board of Adjustment shall require that the applicant submit a plan or document certified by a registered professional engineer that the floodproofing measures are consistent with the regulatory flood protection elevation and associated flood factors for the particular area. Such floodproofing measures may include, but are not necessarily limited to the following:

1. Anchorage to resist flotation and lateral movement.
2. Installation of watertight doors, bulkheads, and shutters, or similar methods of construction.
3. Reinforcement of walls to resist water pressures.
4. Use of paints, membranes, or mortars to reduce seepage of water through walls.
5. Addition of mass or weight structures to resist flotation.
6. Installation of pumps to lower water levels in structures..
7. Construction of water supply and waste treatment systems so as to prevent the entrance of flood waters.
8. Pumping facilities or comparable practices for subsurface drainage systems for building to relieve external foundation wall and basement flood pressures.
9. Construction to resist rupture or collapse caused by water pressure or floating debris.
10. Installation of valves or controls on sanitary and storm drains which will permit the drains to be closed to prevent backup of sewage and stormwaters into the buildings or structures.
11. Location of all electrical equipment, circuits and installed electrical appliances in a manner which will assure they are not subject to flooding.

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f) APPEALS TO THE COURT. Any person or persons, jointly or severally, aggrieved by any decision of the Board of Adjustment may present to a court of record a petition, duly verified, setting forth that such decision is illegal, in whole or in part, specifying the grounds of the illegality. Such petition shall be presented to the court within thirty days after the filing of the decision in the office of the Board.

SECTION 8 NONCONFORMING USES

A structure or the use of a structure of land which was lawful before the passage or amendment of the ordinance but which is not in conformity with the provisions of this ordinance may be continued subject to the following conditions:

6-7.0801 No such use shall be expanded, changed, enlarged, or altered in a way which increases its nonconformity.

6-7.0802 No structural alteration, addition, or repair to any nonconforming structure over the life of the structure shall exceed 50 percent of its value at the time of its becoming a nonconforming use, unless the structure is permanently changed to a conforming use.

6-7.0803 If such use is discontinued for twelve (12) consecutive months, any future use of the building premises shall conform to this ordinance. The assessor shall notify the Zoning Administrator in writing of instances of nonconforming uses which have been discontinued for twelve (12) months.

6-7.0804 If any nonconforming use or structure is destroyed by any means, including floods, to an extent of 50 percent or more of its value prior to destruction, it shall not be reconstructed except in conformity with the provisions of this ordinance.

6-7.0805 Uses or adjuncts thereof which are or become nuisances shall not be entitled to continue as nonconforming uses.

6-7.0806 Except as provided in Section 6-7.0805 any use which has been permitted as a Conditional Use or Variance shall be considered a conforming use.

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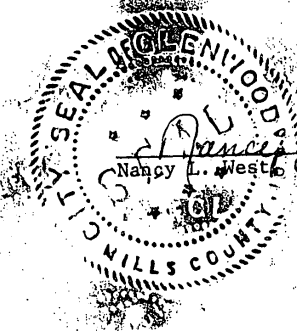
SECTION 9 PENALTIES FOR VIOLATION


6-7.0901 Violations of the provisions of this ordinance or failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with grants of Conditional Uses or Variances) 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 not more than \$100 or imprisoned for not more than 30 days. Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent the City of Glenwood from taking such other lawful action as is necessary to prevent or remedy any violation.

SECTION 10 AMENDMENTS

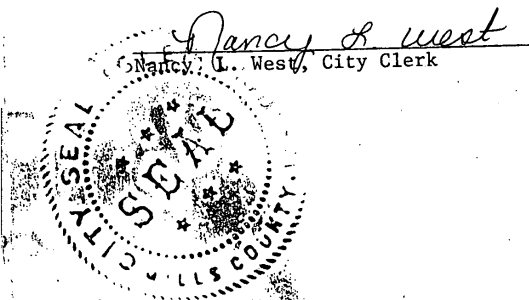
6-7.101 The regulations, restrictions and boundaries set forth in this ordinance may from time to time be amended, supplemented, changed, or repealed as provided in Sections 414.4, 414.5, and 414.21, Code of Iowa, 1977 as amended. No amendment, supplement, change, or modification to this ordinance shall be undertaken without prior approval from the Iowa Natural Resources Council.

Duly passed and approved this 4th day of May, 1982.




Gene A. Schatz, Mayor

I, Nancy L. West, state that I am the duly appointed City Clerk of the City of Glenwood, Iowa, and that the attached Ordinance No. 455 is a true and correct copy of the same as shown in the records of my office. Dated this 12th day of October, 1983.



Legals

Public Notice

ORDINANCE #455 TITLE VI-COMMUNITY DEVELOPMENT AND ENVIRONMENT

Chapter 8 FLOOD PLAIN MANAGEMENT ORDINANCE SECTION 1 STATUTORY AUTHORITY, FINDINGS OF FACT AND PURPOSE

6-7.0101 STATUTORY AUTHORITY. The Legislature of the State of Iowa has in Chapter 414, Code of Iowa, 1977, as amended, delegated the responsibility to cities to enact zoning regulations to secure safety from flood and to promote health and the general welfare.

6-7.0102 FINDINGS OF FACT.

1. The flood hazard areas of Glenwood are subject to periodic inundation which can result 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 health, safety, and general welfare of the community.

2. These losses, hazards and related adverse effects are caused by i) the occupancy of flood hazard areas by uses vulnerable to flood damages which create hazardous conditions as a result of being inadequately elevated or otherwise protected from flood and ii) the cumulative effect of flood plain construction on flood flows, which causes increases in flood heights and flood water velocities.

3. This ordinance relies upon engineering methodology for analyzing flood hazards which is consistent with the standards established by the Iowa Natural Resources Council.

This methodology consists of a series of interrelated steps including:

- a) Determination of flood magnitudes and the corresponding flood frequencies by statistical and engineering calculations which permits a consideration of such flood factors as expected frequency of occurrence, area inundated, and depth of inundation.

- b) Calculation of water surface profiles based upon a hydraulic engineering analysis of the capability of the stream channel and overbank areas to convey flood flows.

- c) Computation and delineation of a floodway, an area which must be reserved (no obstructions) for conveyance of flood flows so that flood heights and velocities will not be substantially increased by future encroachment on the flood plain.

6-7.0103 STATEMENT OF PURPOSE. It is the purpose of this ordinance to promote the public health, safety, and general welfare by minimizing those flood losses described in 6-7.0102 with provisions designed to:

1. Reserve sufficient flood plain area for the conveyance of flood flows so that flood heights and velocities will not be increased substantially.

2. Restrict or prohibit uses which are dangerous to health, safety or property in times of flood or which cause excessive increases in flood heights or velocities.

3. Require that uses vulnerable to floods, including public utilities which serve such uses, be protected against flood damage at the time of initial construction.

4. Protect individuals from buying lands which are unsuited for intended purposes because of flood hazard.

5. Assure that eligibility is maintained for property owners in the community to purchase flood insurance through the National Flood Insurance Program.

SECTION 2 DEFINITIONS

6-7.0201 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 its most reasonable application.

DEVELOPMENT. Any man-made change to improve or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations.

FLOOD. A general and temporary condition of partial or complete inundation of normally dry land areas resulting from the overflow of streams or rivers or from the unusual and rapid runoff of surface waters from any source.

FLOOD ELEVATION. The elevation floodwaters would reach at a particular site during the occurrence of a specific flood. For instance, the 100 year flood elevation is that elevation of floodwaters related to the occurrence of the 100 year flood.

FLOOD INSURANCE RATE MAP. The official map prepared as part of (but published separately from) the Flood Insurance Study which delineates both the flood hazard areas and the risk premium zones applicable to the community.

FLOOD INSURANCE STUDY. A study initiated, funded, and published by the Federal Insurance Administration for the purpose of evaluating in detail the existence and severity of flood hazards; providing the city with the necessary information for adopting a flood plain management program; and establishing actuarial flood insurance rates.

FLOOD PLAIN. Any land area susceptible to being inundated by water as a result of a flood.

FLOOD PLAIN MANAGEMENT. An overall program of corrective and preventive measures for reducing flood damages and promoting the wise use of flood plains, including but not limited to emergency preparedness plans, flood control works, floodproofing and flood plain management regulations.

FLOODPROOFING. Any combination of structural or non-structural additions, changes, or adjustments to structures, including utility and sanitary facilities which will reduce or eliminate flood damage to such structures.

FLOODWAY. The channel of a river or stream and those portions of the flood plains adjoining the channel,

which are reasonably required to carry and discharge flood waters or flood flows so that confinement of flood flows to the floodway area will not result in substantially higher flood levels and flow velocities.

FLOODWAY FRINGE. Those portions of the flood plain, other than the floodway, which can be filled, leveed, or otherwise obstructed without causing substantially higher flood levels or flow velocities.

MOBILE HOME. A building, transportable in one or more sections, which is built on a permanent chassis and designed to be used with or without a permanent foundation when connected to the required utilities. It does not include recreational vehicles or travel trailers.

SECTION 3 GENERAL PROVISIONS

6-7.0301 LAND TO WHICH ORDINANCE APPLIES. This ordinance shall apply to all lands within the jurisdiction of Glenwood shown on the Official Zoning Map as being within the boundaries of the Floodway, Floodway Fringe.

6-7.0302 ESTABLISHMENT OF OFFICIAL FLOOD PLAIN ZONING MAP. The Official Flood Plain Zoning Map, together with all explanatory matter thereon and attached thereto, is hereby adopted by reference and declared to be a part of this ordinance. The Official Zoning Map bears the signature of the Mayor attested by the City Clerk and shall be on file in the office of the City Clerk. The Flood Insurance Study and Flood Insurance Rate Map(s) for the City of Glenwood,

dated May 17, 1982, are attached to and made a part of the Official Flood Plain Zoning Map.

6-7.0303 RULES FOR INTERPRETATION OF DISTRICT BOUNDARIES. The boundaries of the zoning district shall be determined by scaling distances on the Official Flood Plain Zoning Map. Where interpretation is needed as to the exact location of the boundaries of the district as shown on the Official Zoning Map, the Zoning Administrator shall make the necessary interpretation. The person contesting the location of the district boundary shall be given a reasonable opportunity to present their case and submit technical evidence.

6-7.0304 COMPLIANCE. No structure or land shall hereafter be used and no structure shall be located, extended, converted or structurally altered without full compliance with the terms of this ordinance and other applicable regulations which apply to uses within the jurisdiction of this ordinance.

6-7.0305 ABROGATION AND GREATER RESTRICTIONS. It is not intended by this ordinance to repeal, abrogate or impair any existing easements, covenants, or deed restrictions. However, where this ordinance imposes greater restrictions, the provision of this ordinance shall prevail. All other ordinances inconsistent with this ordinance are hereby repealed to the extent of the inconsistency only.

6-7.0306 INTERPRETATION. In their interpretation and application, the provisions of this ordinance shall be held to be minimum requirements and shall be liberally construed in favor of the governing body and shall not be deemed a limitation or repeal of any other powers granted by State statutes.

6-7.0307 WARNING AND DISCLAIMER OF LIABILITY. The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on engineering and scientific methods of study. Larger floods may occur on rare occasions. Flood heights may be increased by man-made or natural causes, such as ice jams and bridge openings restricted by debris. This ordinance does not imply that areas outside the flood plain districts or land uses permitted within such districts will be free from flooding or flood damages. This ordinance shall not create liability on the part of Glenwood or any officer or employee thereof for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made thereunder.

6-7.0308 SEVERABILITY. If any section, clause, provision or portion of this ordinance is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of this ordinance shall not be affected thereby.

SECTION 4 ESTABLISHMENT OF ZONING DISTRICTS

6-7.0401 The Flood plain areas within the jurisdiction of this ordinance are hereby divided into the following districts:

1. **FLOODWAY (OVERLAY) DISTRICT.** The Floodway District shall be consistent with the boundaries of the floodway as shown on the Official Flood Plain Zoning Map.

2. **FLOODWAY FRINGE (OVERLAY) DISTRICT.** The Floodway Fringe District shall be those areas shown as floodway fringe on the Official Flood Plain Zoning Map.

SECTION 5 FLOODWAY (OVERLAY) DISTRICT (FW)

6-7.0501 PERMITTED USES. The following uses shall be permitted within the Floodway District to the extent they are not prohibited by any other ordinance (or underlying zoning district) and provided they do not require placement of structures, mobile homes, fill or other obstruction, the storage of materials or equipment, excavation, or alteration of a water-course.

1. Agricultural uses such as general farming, pasture, grazing, outdoor plant nurseries, horticulture, viticulture, truck farming, forestry, sod farming, and wild crop harvesting.
2. Industrial-commercial uses such as loading areas, parking areas, airport landing strips.
3. Private and public recreational uses such as golf courses, tennis courts, driving ranges, archery ranges, picnic grounds, boat launching ramps, swimming areas, parks, wildlife and nature preserves, game farms, fish hatcheries, shooting preserves, target ranges, trap and skeet ranges, hunting and fishing areas, hiking and horseback riding trails.
4. Residential uses such as lawns, gardens, parking areas and play areas.

5. Such other open-space uses similar in nature to the above uses.

6-7.0502 **CONDITIONAL USES.** The following uses which involve structures (temporary or permanent), fill, storage of materials or equipment may be permitted only upon issuance of a Conditional Use Permit by the Board of Adjustment as provided for in Section 6-7.0703. Such uses must also meet the applicable provisions of the Floodway District Performance Standards.

1. Uses or structures accessory to open-space uses.

2. Circuses, carnivals, and similar transient amusement enterprises.

3. Drive-in theaters, new and used car lots, roadside stands, signs, and billboards.

4. Extraction of sands, gravel, and other materials.

5. Marinas, boat rentals, docks, piers, wharves.

6. Utility transmission lines, underground pipelines.

7. Other uses similar in nature to uses described in Section 6-7.0501 or 6-7.0502 which are consistent with the provisions of Sections 6-7.0503 and the general spirit and purpose of this ordinance.

6-7.0503 **PERFORMANCE STANDARDS.** All Floodway District uses allowed as a Permitted or Conditional Use shall meet the following standards.

1. No use shall be permitted in the Floodway District that would result in any increase in the 100 year flood level. Consideration of the effects of any development on flood levels shall be based upon the assumption that an equal degree of development would be allowed for similarly situated lands.

2. All uses within the Floodway District shall:

a) Be consistent with the need to minimize flood damage.

b) Use construction methods and practices that will minimize flood damage.

c) Use construction materials and utility equipment that are resistant to flood damage.

3. No use shall affect the capacity or conveyance of the channel or floodway or any tributary to the main stream, drainage ditch, or any other drainage facility or system.

4. Structures, buildings and sanitary and utility systems, if permitted, shall meet the applicable performance standards of the Floodway Fringe District and shall be constructed or aligned to present the minimum possible resistance to flood flows.

5. Buildings, if permitted, shall have a low flood damage potential and shall not be for human habitation.

6. Storage of materials or equipment that are buoyant, flammable, explosive or injurious to human, animal or plant life is prohibited. Storage of other material may be allowed if readily removable from the Floodway District within the time available after flood warning.

7. Watercourse alterations or relocations (channel changes and modifications) must be designed to maintain the flood carrying capacity within the altered or relocated portion. In addition, such alterations or relocations must be approved by the Iowa Natural Resources Council.

8. Any fill allowed in floodway must be shown to have some beneficial purpose and shall be limited to the minimum amount necessary.

9. Pipeline river or stream crossings shall be buried in the streambed and banks or otherwise sufficiently protected to prevent rupture due to channel degradation and meandering or due to the action of flood flows.

10. No mobile homes shall be permitted except in existing mobile home parks. Tie-down standards of the Floodway Fringe District must be met in such cases.

SECTION 6 FLOODWAY FRINGE (OVERLAY) DISTRICT (FF)

6-7.0601 **PERMITTED USES.** All uses within the Floodway Fringe District shall be permitted to the extent that they are not prohibited by any other ordinance (or underlying zoning district) and provided they meet applicable performance standards of the Floodway Fringe District.

6-7.0602 **PERFORMANCE STANDARDS.** All uses must be consistent with the need to minimize flood damage and shall meet the following applicable performance standards.

1. **ALL STRUCTURES SHALL** i) be adequately anchored to prevent flotation, collapse or lateral movement of the structure, ii) be constructed with materials and utility equipment resistant to flood damage, and iii) be constructed by methods and practices that minimize flood damage.

2. **RESIDENTIAL BUILDINGS.** All new or substantially improved residential structures shall have the lowest floor, including basements, elevated a minimum of 1.0 ft. above the 100 year flood level. Construction shall be upon compacted fill which shall, at all points, be no lower than 1.0 ft. above the 100 year flood level and extend at such elevation at least 18 feet beyond the limits of any structure erected thereon. Alternate methods of elevating (such as piers) may be allowed, subject to favorable consideration by the Board of Adjustment and issuance of a Conditional Use Permit, where existing topography, street grades, or other factors preclude elevating by fill. In such cases, the methods used must be adequate to support the structure as well as withstand the various forces and hazards associated with flooding.

3. **NON-RESIDENTIAL BUILDINGS.** All new or substantially improved non-residential buildings shall have the first floor (including basement) elevated a minimum of 1.0 ft. above the 100 year flood level, or together with attendant utility and sanitary systems, be floodproofed to such a level. When floodproofing is utilized, a professional engineer registered in the State of Iowa shall certify that the floodproofing methods used are adequate to withstand the flood depths, pressures, velocities, impact and uplift forces and other factors associated with the 100 year flood; and that the structure, below the 100 year floor level, is watertight with walls substantial impermeable to the passage of water. A record of the certification indicating the specific elevation (in relation to mean sea level) to which any structures are floodproofed shall be maintained by the Zoning Administrator.

4. Mobile homes which are placed in an existing mobile home park shall be anchored to resist flotation, collapse, or lateral movement by providing over-the-top and frame ties to ground anchors. Specific requirements are that i) over-the-top ties be provided at each of the four corners of the mobile home with two (2) additional ties per side at intermediate locations for mobile homes 50 ft. or more in length of one (1) such tie for mobile homes less than 50 ft. in length; ii) frame ties be provided at each corner of the home with five (5) additional ties per side at intermediate points for mobile homes 50 ft. or more in length or four (4) such ties for homes less than 50 ft. in length; iii) all components of the anchoring system be capable of carrying a force of 4800 pounds; and iv) any additions to the mobile home be similarly anchored.

5. Mobile homes not being placed in existing mobile home parks shall be placed on lots or pads elevated by means of compacted fill so that the lowest floor of the mobile home will be a minimum of 1.0 ft. above the 100 year flood level. In addition, the tie down specifications of Section 6-7.0602 (4) must be met and adequate surface drainage and access for a hauler must be provided.

6. New mobile home parks, expansions to existing mobile home parks, and mobile home parks where the repair, reconstruction or improvement of the streets, utilities and pads equals or exceeds 50% or more of the value of the streets, utilities and pads before the repair reconstruction or improvement has commenced shall provide i) lots or pads that have been elevated by means of compacted fill so that the lowest floor of mobile homes will be a minimum of 1.0 ft. above the 100 year flood level, ii) adequate surface drainage, iii) access for a hauler and iv) ground anchors for mobile homes.

7. UTILITY AND SANITARY SYSTEMS.

a) All new and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system as well as the discharge of effluent into flood waters. Wastewater treatment facilities shall be provided with a level of flood protection equal to or greater than one (1) foot above the 100 year flood elevation.

b) On site waste disposal systems shall be located or designed to avoid impairment to the system or contamination from the system during flooding.

c) New or replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system. Water supply treatment facilities shall be provided with a level of protection equal to or greater than one (1) foot above the 100 year flood elevation.

d) Utilities such as gas and electrical systems shall be located and constructed to minimize or eliminate flood damage to the system and the risk associated with such flood damaged or impaired systems.

8. Storage of materials and equipment that are flammable, explosive or injurious to human, animal or plant life is prohibited unless elevated a minimum of one (1) foot above the 100 year flood level. Other material and equipment must either be similarly elevated or i) not be subject to major flood damage and be anchored to prevent movement due to flood waters or ii) be readily removable from the area within the time available after flood warning.

9. Flood control structural works such as levees, floodwalls, etc. shall provide, at a minimum, protection from a 100 year flood with a minimum of 3 ft. of design freeboard and shall provide for adequate interior drainage. In addition, structural flood control works shall be approved by the Iowa Natural Resources Council.

10. No use shall affect the capacity or conveyance of the channel or floodway of any tributary to the main stream, drainage ditch, or other drainage facility or system.

11. Subdivisions shall be consistent with the need to minimize flood damages and shall have adequate drainage provided to reduce exposure to flood damage. Development associated with subdivision proposals shall meet the applicable performance standards. Subdivision proposals intended for residential development shall provide all lots with a means of vehicular access that will remain dry during occurrence of the 100 year flood.

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SECTION 7 ADMINISTRATION

6-7.0701 APPOINTMENT, DUTIES AND RESPONSIBILITIES OF ZONING ADMINISTRATOR.

1. A Zoning Administrator designated by the city council shall administer and enforce this ordinance and will herein be referred to as the Administrator.

2. Duties and Responsibilities of the Administrator shall include, but not necessarily be limited to, the following:

a) Review all flood plain development permit applications to insure that the provisions of this ordinance will be satisfied.

b) Review all flood plain development permit applications to insure that all necessary permits have been obtained from federal, state or local governmental agencies.

c) Record and maintain a record of i) the elevation (in relation to mean sea level) of the lowest-habitable floor of all new or substantially improved buildings or ii) the elevation to which new or substantially improved structures have been floodproofed.

d) Notify adjacent communities and/or counties and the Iowa Natural Resources Council prior to any proposed alteration or relocation of a watercourse and submit evidence of such notifications to the Federal Insurance Administrator.

e) Keep a record of all permits, appeals, variances and such other transactions and correspondence pertaining to the administration of this ordinance.

f) Submit to the Federal Insurance

Administrator an annual report concerning the community's participation, utilizing the annual report form supplied by the Federal Insurance Administration.

g) Notify the Federal Insurance Administration of any annexations or modifications to the community's boundaries.

h) Review subdivision proposals to insure such proposals are consistent with the purpose of this ordinance and advise the City Council of potential conflicts.

6-7.0702 FLOOD PLAIN DEVELOPMENT PERMIT.

1. PERMIT REQUIRED. A Flood Plain Development Permit issued by the Administrator shall be secured prior to initiation of any flood plain development (any man-made change to improve or unimproved real estate, including but not limited to buildings or other structures, mining, filling, grading, paving, excavation or drilling operations) including the placement of mobile homes.

2. APPLICATION FOR PERMIT. Application for a Flood Plain Development Permit shall be made on forms supplied by the Administrator and shall include the following information:

a) Description of the work to be covered by the permit for which application is to be made.

b) Description of the land on which the proposed work is to be done (i.e., lot, block, tract, street address or similar description) that will readily identify and locate the work to be done.

c) Indication of the use or occupancy for which the proposed work is intended.

d) Elevation of the 100 year flood.

e) Elevation (in relation to mean sea level) of the lowest habitable floor (including basement) of buildings or of the level to which a building is to be floodproofed.

f) For buildings being improved or rebuilt, the estimated cost of improvements, and market value of the building prior to the improvements.

g) Such other information as the Administrator deems reasonably necessary for the purpose of this ordinance.

3. ACTION ON PERMIT APPLICATION. The Administrator shall, within a reasonable time, make a determination as to whether the proposed flood plain development meets the applicable provisions and standards of this ordinance and shall approve or disapprove the application. For disapprovals, the applicant shall be informed, in writing, of the specific reasons therefore. The Administrator shall not issue permits for Conditional Uses or variances except as directed by the Board of Adjustment.

4. Construction and Use to be as Provided in Application and Plans. Flood Plain Development Permits issued on the basis of approved plans and applications authorized only the use, arrangement, and construction set forth in such approved plans and applications and no other use, arrangement or construction. Any use, arrangement, or construction at variance with that authorized shall be deemed a violation of this Ordinance and shall be punishable as provided in Section 9. The applicant shall be required to submit certification by a professional engineer or land surveyor, as appropriate, registered in the State of Iowa, that the finished fill, building floor elevations, floodproofing, or other flood protection measures were accomplished in compliance with the provisions of this Ordinance, prior to the use or occupancy of any structure.

6-7.0703 CONDITIONAL USES, APPEALS, AND VARIANCES.

1. APPOINTMENT AND DUTIES OF BOARD OF ADJUSTMENT. A Board of Adjustment is hereby established which shall hear and decide i) applications for Conditional Uses upon which the Board is authorized to pass under this Ordinance; ii) appeals, and iii) requests for variances to the provisions of this Ordinance; and shall take any other action which is required of the Board.

2. CONDITIONAL USES. Requests for Conditional Uses shall be submitted to the Administrator, who shall forward such to the Board of Adjustment for consideration. Such requests shall include information ordinarily submitted with applications as well as any additional information deemed necessary by the Board of Adjustment.

3. APPEALS. Where it is alleged there is any error in any order, requirement, decision, or determination made by an administrative official in the enforcement or administration of this Ordinance, the aggrieved party may appeal such action. The notice of appeal shall be filed with the Board of Adjustment and with the official from whom the appeal is taken and shall set forth the specific reason for the appeal. The official from whom the appeal is taken shall transmit to the Board of Adjustment all the papers constituting the record upon which the action appealed from was taken.

4. VARIANCES. The Board of Adjustment may authorize upon request in specific cases such variances from the terms of this ordinance that will not be contrary to the public interest; where owing to special conditions a literal enforcement of the provisions of this ordinance will result in unnecessary hardship. Variances granted must meet the following applicable standards:

a) No variance shall be granted for any development within the Floodway District which would result in any increase in floods during the occurrence of the 100 year flood.

b) Variances shall only be granted upon i) a showing of 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 the 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.

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

d) In cases where the variance involves a lower level of flood protection for buildings than what is ordinarily required by this Ordinance, the applicant shall be notified in writing over the signature of the Zoning Administrator that i) the issuance of a variance will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage and ii) such construction increases risks to life and property.

e) All variances granted shall have the concurrence or approval of the Iowa Natural Resources Council.

5. HEARINGS AND DECISIONS OF THE BOARD OF ADJUSTMENT.

a) HEARINGS. Upon the filing with the Board of Adjustment of an appeal, an application for a Conditional Use or a request for a Variance, the Board shall hold a public hearing. The Board shall fix a reasonable time for the hearing and give public notice thereof, as well as due notice to parties in interest. At the hearing, any party may appear in person or by agent or attorney and present written or oral evidence. The Board may require the appellant or applicant to provide such information as is reasonably deemed necessary, and may request the technical assistance and/or evaluation of a professional engineer or other expert person or agency, including the Iowa Natural Resources Council.

b) DECISIONS. The Board shall arrive at a decision on an appeal, Conditional Use or Variance within a reasonable time. In passing upon an appeal, the Board may, so long as such action is in conformity with the provisions of the ordinance, reverse or affirm, wholly or in part, or modify the order, requirement, decision, or determination appealed from; and it shall make its decision, in writing, setting forth the findings of fact and the reasons for its decision. In granting a Conditional Use or Variance, the Board shall consider such factors as contained in this section and all other relevant sections of this ordinance and may prescribe such conditions as contained in Section 6-7.0703 (5) (b) (2).

1. Factors upon which the decision of the Board shall be based. In passing upon applications for Conditional uses or requests for Variances, the Board shall consider all relevant factors specified in other sections of this ordinance and:

a) The danger to life and property due to increased flood heights or velocities caused by encroachments.

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

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

d) The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.

e) The importance of the services provided by the proposed facility to the community.

f) The requirements of the facility for a flood plain location.

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

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

i) The relationship of the proposed use to the comprehensive plan and flood plain management program for the area.

j) The safety of access to the property in times of flood for ordinary and emergency vehicles.

k) The expected heights, velocity, duration, rate of rise and sediment transport of the flood water expected at the site.

l) Such other factors which are relevant to the purpose of this ordinance.

2. CONDITIONS ATTACHED TO CONDITIONAL USES OR VARIANCES. Upon consideration of the factors listed above, the Board may attach such conditions to the granting of Conditional Uses or Variances as it deems necessary to further the purpose of this ordinance. Such conditions may include, but not necessarily be limited to:

a) Modification of waste disposal and water supply facilities.

b) Limitation on periods of use and operation.

c) Imposition of operational controls, sureties, and deed restrictions.

d) Requirements for construction of channel modification, dikes, levees, and other protective measures, provided such are approved by the Iowa Natural Resources Council and are deemed the only practical alternative to achieving the purposes of this ordinance.

e) FLOODPROOFING MEASURES.

Floodproofing measures shall be designed consistent with the flood protection elevation for the particular area, flood velocities, durations, rate of rise, hydrostatic and hydrodynamic forces, and other factors associated with the regulatory flood. The Board of Adjustment shall require that the applicant submit a plan or document certified by a registered professional engineer that the floodproofing measures are consistent with the regulatory flood protection elevation and associated flood factors for the particular area. Such floodproofing measures may include, but are not necessarily limited to the following:

1. Anchorage to resist flotation and lateral movement.

2. Installation of watertight doors, bulkheads, and shutters, or similar methods of construction.

3. Reinforcement of walls to resist water pressures.

4. Use of paints, membranes, or mortars to reduce seepage of water through walls.

5. Addition of mass or weight structures to resist flotation.

6. Installation of pumps to lower water levels in structures.

7. Construction of water supply and waste treatment systems so as to prevent the entrance of flood waters.

8. Pumping facilities or comparable practices for subsurface drainage systems for building to relieve external foundation wall and basement flood pressures.

9. Construction to resist rupture or collapse caused by water pressure or floating debris.

10. Installation of valves or controls on sanitary and storm drains which will permit the drains to be closed to prevent backup of sewage and stormwaters into the buildings or structures.

11. Location of all electrical equipment, circuits and installed electrical appliances in a manner which will assure they are not subject to flooding.

9. APPEALS TO THE COURT. Any person or persons, jointly or severally, aggrieved by any decision of the Board of Adjustment may present to a court of record a petition, duly verified, setting forth that such decision is illegal, in whole or in part, specifying the grounds of the illegality. Such petition shall be presented to the court within thirty days after the filing of the decision in the office of the Board.

SECTION 8 NONCONFORMING USES

A structure or the use of a structure of land which was lawful before the passage or amendment of the ordinance but which is not in conformity with the provisions of this ordinance may be continued subject to the following conditions:

6-7.0801 No such use shall be expanded, changed, enlarged, or altered in a way which increases its nonconformity.

6-7.0802 No structural alteration, addition, or repair to any nonconforming structure over the life of the structure shall exceed 50 percent of its value at the time of its becoming a nonconforming use, unless the structure is permanently changed to a conforming use.

6-7.0803 If such use is discontinued for twelve (12) consecutive months, any future use of the building premises shall conform to this ordinance. The assessor shall notify the Zoning Administrator in writing of instances of nonconforming uses which have been discontinued for twelve (12) months.

6-7.0804 If any nonconforming use or structure is destroyed by any means, including floods, to an extent of 50 percent or more of its value prior to destruction, it shall not be reconstructed except in conformity with the provisions of this ordinance.

6-7.0805 Uses or adjuncts thereof which are or become nuisances shall not be entitled to continue as nonconforming uses.

6-7.0806 except as provided in Section 6-7.0805 any use which has been permitted as a Conditional Use or Variance shall be considered a conforming use.

SECTION 9 PENALTIES FOR VIOLATION

6-7.0901 Violations of the provisions of this ordinance or failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with grants of Conditional Uses or Variances) 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 not more than \$100 or imprisoned for not more than 30 days. Each day such violation continues shall be considered a separate offense. Nothing herein contained shall prevent the City of Glenwood from taking such other lawful action as is necessary to prevent or remedy any violation.

6-7.101 The regulations, restrictions and boundaries set forth in this ordinance may from time to time be amended, supplemented, changed, or repealed as provided in Sections 414.4, 414.5, and 414.21, Code of Iowa, 1977 as amended. No amendment, supplement, change, or modification to this ordinance shall be undertaken without prior approval from the Iowa Natural Resources Council.

Duley passed and approved this 4th day of May, 1982.

s/ Gene A. Schatz
Gene A. Schatz, Mayor

Attest:

s/ Nancy L. West
Nancy L. West, City Clerk
(Published in the Glenwood Opinion Tribune Thurs., May 13, 1982)

STATE OF IOWA } ss.
Mills CountyI, Pat Hofmoeckel

being duly sworn, depose and say that I am publisher or employee of

The Glenwood Opinion Tribune

a newspaper published at Glenwood, in and for said Mills County, and

that a notice, a copy of which is hereto attached, was published in said

newspaper one consecutive weeks, the lastpublication being on May 13 1982Pat Hofmoeckel
Publisher/Employee of the Glenwood Opinion-Tribune
Pat HofmoeckelPrinting Fee \$279.25Subscribed and sworn to before me this 13 day of May 1982day of May 1982Eula Mae Hammer
Notary Public
Eula Mae
Hammer